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1983 STATISTICS OF PAPER PAPERBOARD & WOOD PULP

DATA THROUGH 1982

AMERICAN PAPER INSTITUTE
260 MADISON AVENUE
NEW YORK 10016

F O R E W O R D

We are pleased to present the twenty-first edition of the American Paper Institute's **Statistics of Paper, Paperboard and Wood Pulp.**

The Statistics of Paper, Paperboard and Wood Pulp is designed to present an up-to-date comprehensive statistical history of the paper and paperboard industry. In addition to the statistics on production, imports, exports, consumption, finances, prices, employment and wage rates, this report compares trends of new supply of paper and paperboard by major grades with trends in population and in total economic activity as measured by the real Gross National Product.

The current edition follows the format instituted in the 1981 report, combining the tables into functional groupings: (1) production and related data; (2) regional data; (3) data on inputs - fuels, fibrous raw materials, labor and capital, along with expenditures on research and development; (4) data on financial and price trends. The fifth section is a supplement presenting Census data on wet machine board and construction paper and board, together with the import and export data used to calculate paper and paperboard new supply. It also includes an index to this report.

Table XVII has been revised to show the data on paper, paperboard and wood pulp capacity by major grade for each of the Census Divisions for 1970, 1978-1981 and 1985.

Each section starts with a brief description and explanation of the tables contained in that section.

We welcome any comments or suggestions you may have concerning the usefulness of this report.

Norma Pace

Norma Pace
Senior Vice President

August 1983

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SECTION 1

PRODUCTION AND RELATED OUTPUT DATA

Table I presents data on production, imports, exports and new supply (production plus imports minus exports) of the total paper market, including paper, paperboard, wet machine board, construction paper and insulating board, together with data on population, the gross national product expressed in 1972 dollars (real GNP) and the relationship between new supply, population and real GNP for selected years from 1899 to 1944 and annually from 1947 to 1982. The 1982 production total includes an estimate of 1,662,000 tons for production of wet machine board, construction paper and insulating board.

Chart 1 highlights new supply, production, real GNP and the ratio of new supply to real GNP annually for the years 1959-1982.

The decline in production, imports, exports and new supply of paper and paperboard in 1982 reflect the domestic and worldwide recession evident in that year. As is usual in times of recession, new supply of paper and paperboard fell more sharply than real GNP, so that the new supply/real GNP ratio declined. Users of paper and paperboard products tend to reduce their inventories in periods of recession and rebuild them in the upward phase of the business cycle.

The long-term trend in the ratio of new supply to real GNP, shown in the last column of Table I and on the bottom line of Chart 1, describes the generally close relationship between new supply of paper and paperboard and real GNP. It shows that there was a downward shift in this relationship after the 1975 recession. Although there was a further drop in the ratio after the 1980 recession, early data for 1983 indicate that the ratio has returned to its 1980-1981 level.

Table IA and Chart 1A present data on production, imports, exports and new supply of total paper and paperboard, excluding wet machine board, construction paper and insulating board grades for the years 1959 to 1982. The Bureau of Census no longer publishes current monthly data on the pulp, paper and paperboard industry so there are no current data on the construction grades. The data in Table IA and Chart 1A are consistent with the current monthly data published by the API.

Production of paper plus paperboard in 1981 reached a new high, exceeding the 1979 total. The new supply total in 1981, however, was below the 1979 high because of the higher level of net imports (imports less exports) in 1979.

Production of paper plus paperboard in 1982 fell 4.5% below its 1981 level, while new supply fell 4.2%. This compares to the 1.9% decline in real GNP in 1982. The decline in industrial production in 1982 was much greater because of extensive inventory reduction; the 8% drop in industrial production contracted the demand for packaging paper and board by significant amounts.

Table II presents detailed data on the production of paper.

Tables III to IX show detailed data on the production of paperboard. These data are presented in terms of paperboard grades related to end-uses, such as, containerboard and boxboard, as well as in terms of raw material input, such as kraft paperboard and semichemical paperboard.

Table X presents a summary of the trends in new supply of paper and paperboard, by major grade, relative to real GNP. The data on imports used in the calculation of new supply are largely derived from the Bureau of Census reports. However, imports of newsprint and uncoated groundwood paper from Canada included in this table are taken from the Canadian Pulp and Paper Association data on shipments of these grades to the United States. Census data on imports of uncoated book paper from Finland have, in some years, been shifted to uncoated groundwood paper, based on analyses of these data by API's Printing/Writing Paper Division. The import and export data used in compiling Table X are shown in Tables XXXIV and XXXV.

The data on paper exports are derived from the Bureau of Census, but the source of paperboard exports is API data on production of these grades for export.

The imports and exports data used to compute the new supply figures for all paper and paperboard, including products, are Census data.

Tables XI and XII show data on paper and paperboard capacity, total wood pulp capacity, and capacity to produce market pulp.

Tables XIII and XIV present the import and export data, as reported by the Bureau of Census for the years 1977-1982.

Table XV shows detailed data on the value of shipments of paper and paperboard at the Census Product Code five-digit level for the years 1977 through 1981, as reported by the Department of Commerce.

TABLE I

PAPER AND BOARD

PRODUCTION, IMPORTS, EXPORTS AND NEW SUPPLY

1899 - 1982

YEAR	Production	Imports (Inc. Products)	Exports (Inc. Products)	New Supply*	Population Millions	Per Capita New Supply --lbs.--	Real Gross National Product $ Bil.1972 Prices	Ratio New Supply to Real GNP 000 Tons/Bil.$
	(Thousand Tons)							
1899	2,168	-	-	2,168	74.9	57.9	-	-
1919	5,966	708	421	6,253	105.1	119.6	-	-
1929	11,140	2,534	262	13,411	121.8	220.3	315.7	42.5
1934	9,187	2,265	163	11,289	126.5	178.3	239.1	47.2
1939	13,510	1,687	249	15,949	131.0	243.5	319.8	49.9
1944	17,183	2,576	314	19,445	138.9	280.0	569.1	34.2
1947	20,800	4,121	460	24,461	144.7	338.1	470.3	52.0
1948	21,532	4,582	377	25,737	147.2	349.7	489.8	52.5
1949	20,098	4,752	367	24,483	149.8	326.9	492.2	49.7
1950	23,992	5,006	364	28,634	152.3	376.0	534.8	53.5
1951	25,699	5,143	631	30,211	154.9	390.1	579.4	52.1
1952	25,008	5,190	584	28,614	157.6	363.1	600.8	47.6
1953	26,182	5,229	471	30,940	160.2	386.3	623.6	49.6
1954	26,411	5,165	682	30,894	163.0	379.1	616.1	50.1
1955	29,649	5,346	839	34,156	165.9	411.7	657.5	51.9
1956	30,901	5,780	775	35,906	168.9	425.2	671.6	53.5
1957	30,097	5,410	863	34,644	172.0	402.8	683.8	50.7
1958	30,214	5,092	847	39,459	174.9	394.0	680.9	50.6
1959	33,748	5,517	906	38,358	177.8	431.5	721.7	53.2
1960	33,904	5,633	1,021	38,517	180.7	426.3	737.2	52.2
1961	35,178	5,678	1,210	39,646	183.7	431.6	756.6	52.4
1962	37,062	5,740	1,187	41,616	186.5	446.3	800.3	52.0
1963	38,647	5,669	1,333	42,981	189.2	454.3	832.5	51.6
1964	40,962	6,209	1,694	45,477	191.9	474.0	876.4	51.9
1965	43,455	6,585	1,770	48,270	194.3	496.9	929.3	51.9
1966	46,702	7,358	1,942	52,115	196.6	530.2	984.8	52.9
1967	46,568	6,952	2,085	51,432	198.7	517.7	1,011.4	50.9
1968	50,172	6,842	2,625	54,389	200.7	542.0	1,058.1	51.4
1969	52,956	7,258	2,749	57,463	202.7	567.0	1,087.6	52.8
1970	51,710	7,115	2,817	56,008	205.1	546.2	1,085.6	51.6
1971	53,203	7,406	3,118	57,492	207.7	553.6	1,122.4	51.2
1972	57,477	7,676	3,069	62,082	209.9	591.6	1,185.9	52.4
1973	59,936	8,131	3,027	65,039	211.9	613.9	1,254.3	51.9
1974	59,210	8,065	3,797	63,477	213.9	593.5	1,246.3	50.9
1975	51,126	6,253	3,116	54,261	216.0	502.4	1,231.6	44.1
1976	58,486	7,142	3,456	62,171	218.0	570.4	1,298.2	47.9
1977	60,207	7,432	3,230	64,408	220.2	585.0	1,369.7	47.0
1978	62,221	9,113	3,373	67,961	222.6	610.6	1,438.6	47.2
1979	64,546	9,123	3,672	69,997	225.1	621.9	1,479.4	47.3
1980R	63,705	8,780	5,214	67,271	227.7	590.9	1,475.0	45.6
1981R	64,412	8,339	4,641	68,110	229.8	592.8	1,513.8	45.0
1982P	61,149**	8,024	4,246	64,927	232.0	559.7	1,485.4	43.7

SOURCE: Production 1899-1958 - Department of Commerce, Bureau of the Census
Production 1959-1982 - American Paper Institute
Imports and Exports - Department of Commerce, Bureau of the Census
Population - Department of Commerce, Bureau of the Census
Real Gross National Product - Department of Commerce, Bureau of Economic Analysis
All calculations by American Paper Institute

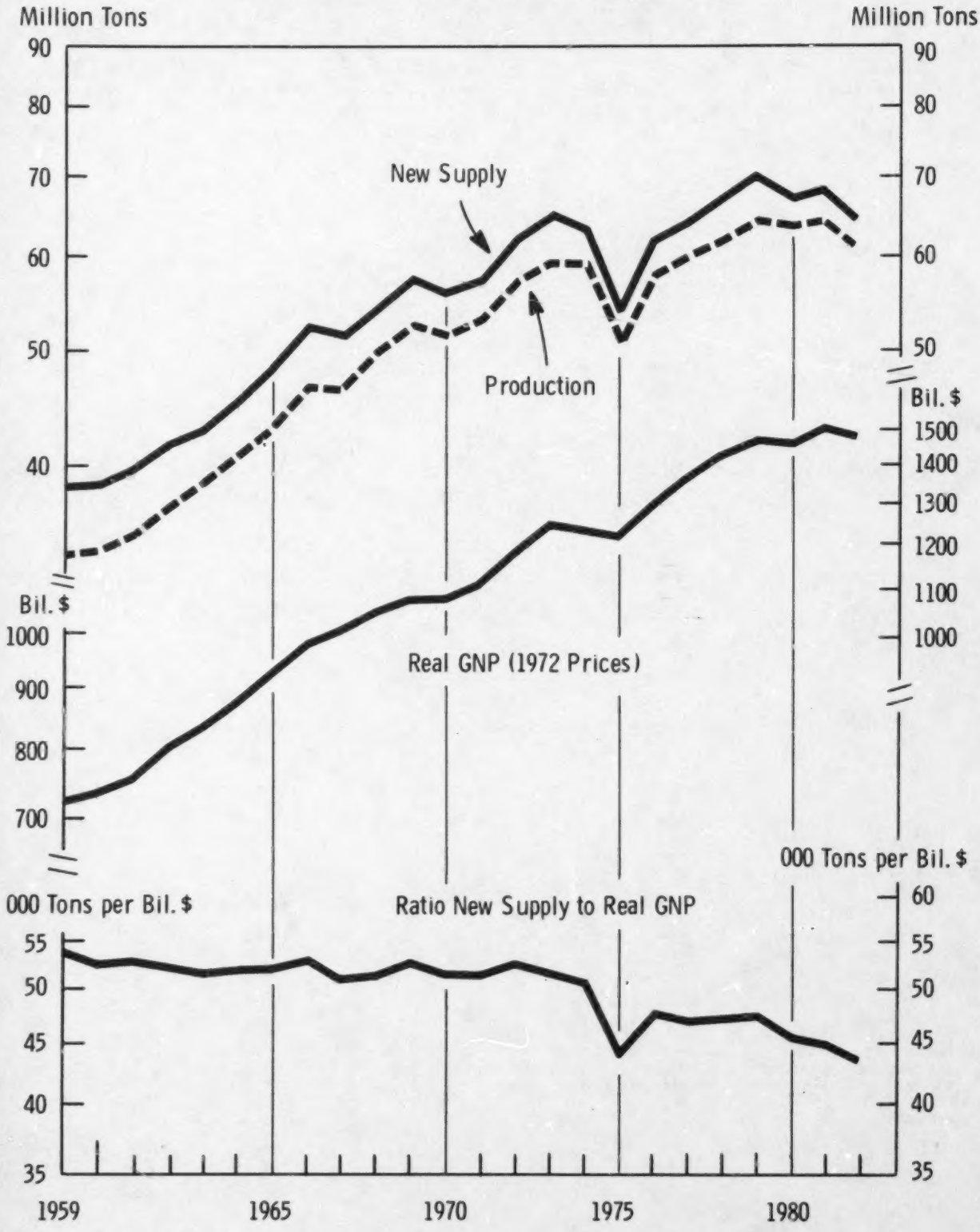
NOTE: Production, Imports and Exports 1947-1982 exclude Hard Pressed Board
Population data includes Armed Forces overseas
R - Revised P - Preliminary

* New Supply = Production plus Imports less Exports

** Includes API estimate of 1,600,000 tons for construction and wet machine board grades

Chart 1

PAPER AND PAPERBOARD



American Paper Institute
Economics Dept.

TABLE IA

PAPER PLUS PAPERBOARD

PRODUCTION, IMPORTS, EXPORTS AND NEW SUPPLY

1959 - 1982

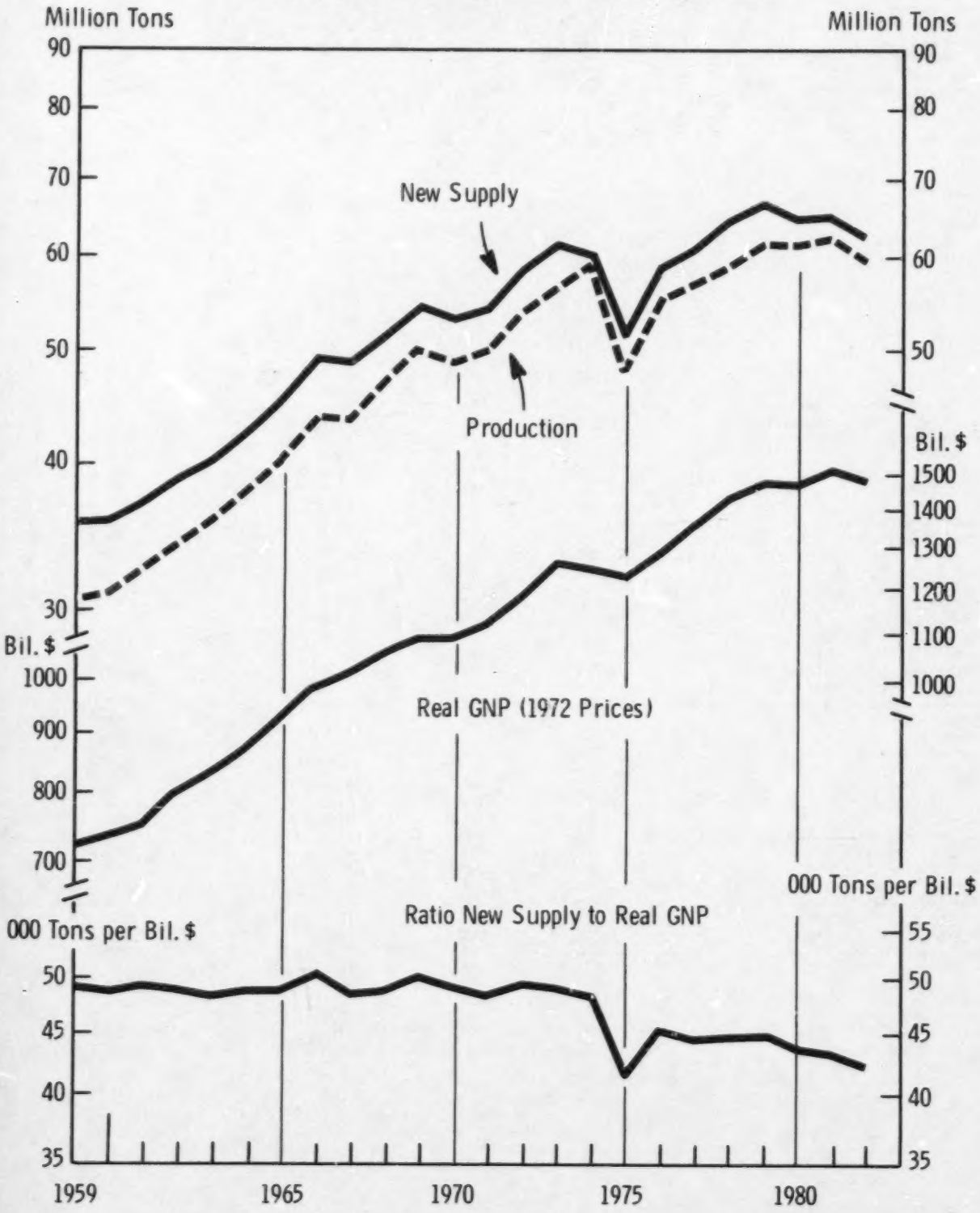
YEAR	Production	Imports	Exports	New Supply*	Ratio New Supply to Real GNP 000 Tons/$ Bil.
		-Thousand Tons-			
1959	30,997	5,484	874	35,607	49.3
1960	31,221	5,611	990	35,842	48.6
1961	32,548	5,663	1,174	37,037	49.0
1962	34,407	5,719	1,154	38,972	48.7
1963	35,914	5,637	1,302	40,219	48.3
1964	38,066	6,154	1,660	42,560	48.6
1965	40,489	6,545	1,737	45,297	48.7
1966	43,904	7,327	1,904	49,327	50.1
1967	43,745	6,917	2,054	48,608	48.1
1968	47,110	6,793	2,587	51,316	48.5
1969	49,853	7,209	2,703	54,359	50.0
1970	48,758	7,057	2,779	53,036	48.9
1971	49,782	7,319	3,076	54,025	48.1
1972	53,885	7,567	3,020	58,432	49.3
1973	56,383	8,019	2,966	61,436	49.0
1974	55,926	7,970	3,720	60,176	48.3
1975	48,147	6,164	3,050	51,261	41.6
1976	55,151	7,042	3,388	58,805	45.3
1977	56,823	7,294	3,171	60,946	44.5
1978	58,744	8,781	3,301	64,224	44.6
1979	61,271	8,738	3,610	66,399	44.9
1980R	61,147	8,304	5,148	64,303	43.6
1981R	62,262	7,941	4,561	65,642	43.4
1982P	59,488	7,603	4,187	62,904	42.3

SOURCE: See Table I
NOTE: All data exclude wet machine board, building paper and insulating board.
* - New Supply = Production plus imports less exports.
R - Revised
P - Preliminary

Chart 1A

PAPER & PAPERBOARD

(Excluding Wet Machine Board & Construction Grades)



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Economics Dept.
July, 1983

TABLE II

TOTAL PAPER SHIPMENTS

1959 - 1982

(Thousands of Tons)

	1959	1960	1961	1962	1963	1964
TOTAL PAPER, ALL GRADES	**15,025.3**	**15,294.6**	**15,821.1**	**16,560.4**	**17,319.5**	**18,111.7**
Newsprint Production	**1,964.0**	**2,038.0**	**2,094.0**	**2,153.9**	**2,218.0**	**2,261.0**
Total Printing-Writing Papers	**6,907.4**	**7,120.6**	**7,369.9**	**7,803.7**	**8,183.5**	**8,667.9**
Uncoated Groundwood	**896.4**	**929.0**	**907.3**	**909.7**	**956.4**	**995.4**
Publishing and Printing	731.0	746.8	746.2	755.0	806.7	837.2
Converting	165.4	182.2	161.1	154.7	149.7	158.2
Coated Papers	**1,992.3**	**2,122.3**	**2,159.3**	**2,290.5**	**2,425.2**	**2,608.3**
Uncoated Free Sheet Papers	**3,095.8**	**3,112.5**	**3,270.1**	**3,458.3**	**3,634.1**	**3,847.5**
Chemical Wood Pulp Writing Papers	1,205.5	1,166.2	1,279.6	1,401.5	1,452.2	1,538.3
Bond and Writing	429.2	371.8	407.0	457.3	470.0	499.2
Form Bond	245.0	260.0	300.0	345.0	375.0	420.0
Ledger	47.1	42.6	43.5	45.9	45.1	43.0
Mimeograph	102.5	102.1	110.0	113.3	110.9	116.5
Duplicating	92.3	93.6	106.0	111.5	116.0	117.3
Manifold	25.8	25.8	24.3	22.9	17.4	15.5
Papeterie and Wedding	50.1	49.9	44.7	49.3	42.9	45.2
Opaque Circular	27.8	30.1	28.8	26.5	27.3	20.6
Other	185.7	190.3	215.3	229.8	247.6	261.0
Cover and Text Papers	129.0	133.1	142.1	153.8	155.4	168.1
Other Uncoated Free Sheet	1,761.3	1,813.2	1,848.4	1,903.0	2,026.5	2,141.1
M.F., E.F. & Super Calendered	478.5	437.4	346.6	274.2	264.1	240.1
Offset	547.8	622.6	679.3	765.1	862.3	948.5
White Wove Envelope	261.6	267.3	280.0	310.6	318.8	357.3
Tablet	219.6	221.5	249.9	250.3	281.5	293.7
Kraft Envelope Papers: Total	154.3	157.7	164.1	175.3	175.2	172.0
Brown Kraft - Estimated	70.0	75.0	80.0	85.0	85.0	80.0
Bleached Kraft - Estimated	74.3	82.7	84.1	90.3	90.2	92.0
Other	99.5	106.7	128.5	127.5	124.6	129.5
Thin Papers	**135.1**	**148.1**	**153.9**	**183.7**	**178.7**	**192.7**
Cotton Fiber Papers	**119.9**	**115.0**	**118.6**	**118.0**	**118.8**	**117.8**
Bond and Writing	67.5	66.4	69.4	68.8	70.8	72.1
Other Business	32.1	29.9	30.4	30.5	29.7	28.0
Technical and Other	20.3	18.7	18.8	18.7	18.3	17.7
Bleached Bristols	**667.9**	**693.7**	**760.7**	**843.5**	**870.3**	**906.2**
Tabulating Index	279.3	298.2	342.9	393.7	395.5	419.4
Tag	144.1	143.1	149.5	154.6	164.7	171.5
File Folder	44.6	42.9	39.2	51.2	58.9	59.6
Index Bristol	98.3	92.4	94.2	97.6	98.0	97.4
Printing Bristol	20.1	19.9	21.7	22.3	22.3	22.4
Postcard	13.3	16.5	18.7	18.6	13.7	10.4
Coated Bristol	68.2	80.7	94.5	105.5	117.2	125.5
Total Packaging and Industrial Papers	**4,026.0**	**3,934.6**	**4,045.0**	**4,188.6**	**4,341.6**	**4,436.1**
Unbleached Kraft, Bleached Packaging, Glassine, Greaseproof & Vegetable Parchment	**3,731.0**	**3,651.4**	**3,733.0**	**3,880.6**	**4,027.2**	**4,091.7**
Unbleached Kraft Papers	2,776.1	2,738.7	2,779.7	2,890.9	3,051.4	3,098.4
Wrapping	337.3	329.6	343.2	339.2	354.6	352.2
Bag and Sack (Exc. Shipping Sack)	1,102.0	1,127.2	1,135.1	1,231.0	1,270.2	1,326.2
Shipping Sack	813.6	786.7	795.9	797.8	880.7	865.9
Other Converting	523.2	495.2	505.5	522.9	545.9	554.1
Bleached Packaging Papers (Census)	779.0	735.5	769.1	799.0	782.0	797.4
Wrapping	228.7	215.0	196.3	204.3	191.4	191.7
Bag and Sack (Exc. Shipping Sack)	102.8	102.6	121.7	134.5	130.4	138.5
Shipping Sack	54.7	59.3	61.4	59.8	67.0	75.2
Other Converting 1/	392.8	358.6	389.7	400.4	393.2	392.0
Glassine, Grsprf. and Veg. Parch. (Census)	175.9	177.2	184.2	190.7	193.8	195.9
Special Industrial Papers (Census)	**295.0**	**283.2**	**312.0**	**308.0**	**314.4**	**344.4**
Total Tissue Papers (Census)	**2,127.9**	**2,201.4**	**2,312.2**	**2,414.2**	**2,576.4**	**2,746.7**
Total Sanitary Tissue Stock	**1,881.7**	**1,963.6**	**2,078.0**	**2,178.9**	**2,340.4**	**2,515.7**
Toilet Tissue	878.4	878.0	936.1	985.4	1,054.6	1,107.2
Facial Tissue Stock	233.7	254.2	262.0	261.8	278.4	327.4
Napkin Stock	228.6	238.1	246.6	249.5	261.3	266.1
Towelling*	469.1	516.2	558.9	604.5	662.9	723.1
Wiper Stock*	21.7	25.7	26.5	31.9	33.1	38.4
Other Sanitary Tissue*	50.2	51.3	47.7	45.8	50.0	53.5
Total All Other Tissue	**246.2**	**237.8**	**234.3**	**235.3**	**236.0**	**231.0**

1/ Excludes Bleached Kraft Envelope Paper * Revised slightly by API

NOTE (Census): Current Industrial Reports, Pulp, Paper and Board

TABLE II (Cont.)

TOTAL PAPER SHIPMENTS

1959 - 1982

(Thousands of Tons)

	1965	1966	1967	1968	1969	1970
TOTAL PAPER, ALL GRADES	**19,157.0**	**20,724.9**	**20,925.6**	**22,205.6**	**23,476.7**	**23,374.9**
Newsprint Production	**2,245.0**	**2,483.0**	**2,709.0**	**3,045.0**	**3,362.0**	**3,464.0**
Total Printing-Writing Papers	**9,337.5**	**10,318.4**	**10,121.9**	**10,535.8**	**11,199.1**	**10,961.7**
Uncoated Groundwood	**974.0**	**1,088.3**	**1,019.6**	**1,090.3**	**1,094.9**	**1,084.6**
Publishing and Printing	814.0	876.4	806.4	883.3	914.0	924.4
Converting	160.0	211.9	213.2	207.0	180.9	160.2
Coated Papers	**2,814.2**	**3,087.6**	**3,086.4**	**3,138.4**	**3,348.5**	**3,278.6**
Uncoated Free Sheet Papers	**4,216.0**	**4,691.9**	**4,577.0**	**4,817.7**	**5,214.9**	**5,124.4**
Chemical Wood Pulp Writing Papers	1,725.9	1,931.2	1,964.2	2,061.7	2,307.0	2,288.9
Bond and Writing	555.9	620.8	613.9	627.1	718.0	698.6
Form Bond	490.0	575.0	600.0	645.0	778.1	722.1
Ledger	46.6	49.1	47.5	54.6	51.1	48.2
Mimeograph	117.3	125.4	122.7	115.1	113.1	126.4
Duplicating	125.6	134.9	141.9	160.9	172.5	165.6
Manifold	19.9	20.2	17.2	14.0	11.0	9.8
Papeterie and Wedding	45.5	51.7	51.7	56.0	59.9	53.9
Opaque Circular	22.9	23.8	24.6	23.3	25.0	23.6
Other	302.2	330.3	344.7	365.7	378.3	440.7
Cover and Text Papers	186.0	194.1	192.2	192.8	200.1	193.2
Other Uncoated Free Sheet	2,306.1	2,566.6	2,420.6	2,536.2	2,707.8	2,642.3
M.F., E.F. & Super Calendered	219.3	228.2	209.9	198.2	214.3	162.1
Offset	1,062.4	1,221.9	1,165.3	1,272.1	1,356.5	1,360.4
White Wove Envelope	392.4	412.8	423.0	459.6	461.2	466.1
Tablet	304.4	346.3	294.6	313.0	320.9	342.4
Kraft Envelope Papers: Total	194.0	203.7	168.5	186.6	208.8	189.6
Brown Kraft	67.0E	68.1E	92.9E	92.1E	102.9	95.7
Bleached Kraft	127.0E	135.6E	95.6E	94.5E	105.9	93.9
Other	131.6	153.7	139.3	133.7	146.1	121.7
Thin Papers	**211.3**	**245.4**	**238.0**	**261.6**	**289.0**	**287.9**
Cotton Fiber Papers	**122.3**	**126.3**	**124.8**	**124.0**	**128.1**	**115.4**
Bond and Writing	74.8	78.7	74.8	80.5	85.3	76.5
Other Business	29.0	28.8	30.1	25.2	24.7	23.4
Technical and Other	18.5	18.8	19.9	18.3	18.1	15.5
Bleached Bristols	**999.7**	**1,078.9**	**1,076.1**	**1,103.8**	**1,123.7**	**1,070.8**
Tabulating Index	478.6	514.4	533.2	534.6	558.7	499.6
Tag	194.9	196.9	187.4	203.7	193.5	184.3
File Folder	64.0	71.4	71.0	77.8	76.5	72.0
Index Bristol	100.6	115.0	105.5	104.4	100.4	102.3
Printing Bristol	23.4	26.5	24.6	24.0	28.4	32.0
Postcard	8.8	10.3	8.5	5.2	6.8	6.7
Coated Bristol	129.4	144.4	145.9	154.1	159.4	173.9
Total Packaging and Industrial Papers	**4,683.9**	**4,823.7**	**4,865.8**	**5,168.9**	**5,304.8**	**5,230.8**
Unbleached Kraft, Bleached Packaging, Glassine, Greaseproof & Vegetable Parchment	**4,319.1**	**4,430.1**	**4,479.3**	**4,753.1**	**4,861.8**	**4,809.7**
Unbleached Kraft Papers	3,293.1	3,414.4	3,391.9	3,602.5	3,670.2	3,672.4
Wrapping	358.9	370.0	334.7	353.5	327.7	296.4
Bag and Sack (Exc. Shipping Sack)	1,447.7	1,548.1	1,631.3	1,713.0	1,797.9	1,927.4
Shipping Sack	894.9	884.7	902.5	978.8	983.5	953.3
Other Converting	591.6	611.6	523.4	557.2	561.1	495.3
Bleached Packaging Papers (Census)	825.4	801.1	891.3	942.9	975.2	934.0
Wrapping	207.4	208.4	217.7	210.5	229.3	219.6
Bag and Sack (Exc. Shipping Sack)	163.1	171.6	185.5	207.8	227.3	218.6
Shipping Sack	72.0	73.7	89.1	88.7	99.8	97.9
Other Converting 1/	382.9	347.4	398.9	435.8	418.7	397.9
Glassine, Grspf. and Veg. Parch. (Census)	200.6	214.6	196.1	207.7	216.4	203.3
Special Industrial Papers (Census)	**364.8**	**393.6**	**386.5**	**415.8**	**443.0**	**421.1**
Total Tissue Papers	**2,890.6**	**3,099.8**	**3,228.9**	**3,455.9**	**3,610.8**	**3,718.4**
Total Sanitary Tissue Stock	**2,651.4**	**2,847.5**	**2,976.7**	**3,217.2**	**3,368.6**	**3,494.0**
Toilet Tissue	1,120.9	1,169.9	1,171.0	1,273.1	1,274.7	1,323.1
Facial Tissue Stock	327.2	337.5	349.1	349.8	386.4	365.0
Napkin Stock	287.3	332.8	347.3	374.7	377.8	381.2
Towelling	816.4	897.7	987.8	1,077.7	1,136.9	1,168.1
Wiper Stock	40.1	49.1	48.9	50.3	58.8	55.8
Other Sanitary Tissue	59.5	60.5	72.8	91.5	134.1	200.8
Total All Other Tissue	**239.2**	**252.3**	**252.1**	**238.7**	**242.2**	**224.5**

E - Estimated 1/ Excludes Bleached Kraft Envelope Paper

NOTE (Census): Current Industrial Reports, Pulp, Paper and Board

TABLE II (Cont.)

TOTAL PAPER SHIPMENTS

1959-1982

(Thousands of Tons)

	1971	1972	1973	1974	1975	1976
TOTAL PAPER, ALL GRADES	**23,744.9**	**25,383.1**	**26,810.9**	**27,010.8**	**23,391.0**	**26,710.7**
Newsprint Production	**3,476.0**	**3,656.0**	**3,738.0**	**3,561.0#**	**3,691.0**	**3,735.9**
Total Printing-Writing Papers	**11,190.9**	**12,256.8**	**13,424.9**	**13,484.5**	**11,011.7**	**13,250.6**
Uncoated Groundwood	**1,089.2**	**1,126.0**	**1,180.9**	**1,192.4**	**1,127.2**	**1,320.6**
Publishing and Printing	929.0	950.9	985.1	1,001.8	947.5	1,066.5
Converting	160.2	175.1	195.8	190.6	179.7	254.1
Coated Papers	**3,232.7**	**3,526.8**	**3,825.0**	**3,821.7**	**3,194.0**	**3,980.8**
Uncoated Free Sheet Papers	**5,386.9**	**5,991.2**	**6,703.9**	**6,783.8**	**5,355.1**	**6,472.2**
Chemical Wood Pulp Writing Papers	2,435.2	2,751.2	3,287.0	3,594.9	2,762.2	3,353.3
Bond and Writing	761.5	889.6	1,068.7	1,325.1	1,012.0	1,265.5
Form Bond	787.1	913.0	1,119.3	1,160.8	949.6	1,163.2
Ledger	51.5	53.9	61.8	70.8	51.0	57.4
Mimeograph	125.5	128.2	143.3	128.8	96.2	100.8
Duplicating	162.9	171.4	182.4	178.4	123.6	136.0
Manifold	10.7	11.8	12.7	11.7	9.0	12.0
Papeterie and Wedding	51.9	51.1	57.3	47.3	34.2	47.5
Opaque Circular	24.5	26.2	33.6	38.1	26.6	32.8
Other	459.6	508.0	607.9	633.9	460.0	538.1
Cover and Text Papers	181.0	194.4	219.5	213.1	156.2	175.3
Other Uncoated Free Sheet	2,770.7	3,043.6	3,197.4	2,975.8	2,436.7	2,943.7
M.F., E.F. & Super Calendered	147.6	128.6	154.6	128.1	66.5	69.3
Offset	1,443.4	1,661.8	1,826.8	1,798.1	1,434.1	1,744.1
White Wove Envelope	467.6	527.0	570.9	530.6	456.6	519.9
Tablet	401.3	396.5	305.5	167.5	229.3	299.6
Kraft Envelope Papers: Total	176.9	189.5	214.0	203.1	163.8	204.0
Brown Kraft	93.7	93.2	106.7	98.3	83.4	101.4
Bleached Kraft	83.2	96.3	107.3	104.8	80.4	102.6
Other	133.9	140.2	125.6	148.4	86.4	106.7
Thin Papers	**292.3**	**333.2**	**358.2**	**371.8**	**310.8**	**348.4**
Cotton Fiber Papers	**112.8**	**119.1**	**123.7**	**117.0**	**94.5**	**104.2**
Bond and Writing	75.7	81.1	85.5	82.2	67.6	75.8
Other Business	21.1	22.2	22.8	20.8	16.3	15.8
Technical and Other	16.0	15.8	15.4	14.0	10.6	12.6
Bleached Bristols	**1,077.0**	**1,160.5**	**1,233.2**	**1,197.8**	**930.1**	**1,024.4**
Tabulating Index	458.3	465.0	491.2	498.6	372.7	334.3
Tag	193.5	217.1	220.3	140.1	132.3	177.6
File Folder	80.9	88.3	87.1	66.9	86.0	92.0
Index Bristol	106.1	120.9	130.9	181.0	119.0	140.8
Printing Bristol	32.9	39.2	46.9	52.5	37.9	43.0
Postcard	6.7	5.7	3.1	0.2	1.3	1.4
Coated Bristol	198.6	224.3	253.7	258.5	180.9	235.3
Total Packaging and Industrial Papers	**5,245.4**	**5,493.7**	**5,609.2**	**5,878.9**	**4,708.9**	**5,540.6**
Unbleached Kraft, Bleached Packaging, Glassine, Greaseproof & Vegetable Parchment	**4,807.1**	**4,986.9**	**4,999.1**	**5,280.9**	**4,268.7**	**4,967.0**
Unbleached Kraft Papers	3,649.2	3,810.9	3,901.6	4,181.8RS	3,384.0	3,931.1
Wrapping	280.3	282.5	272.3	196.1	150.8	164.7
Bag and Sack (Exc. Shipping Sack)	1,929.3	2,014.5	2,006.2	2,148.5	1,939.0	2,119.2
Shipping Sack	930.4	935.7	1,025.8	1,150.1	811.0	977.4
Other Converting	509.2	578.2	597.3	687.1	483.2	669.8
Bleached Packaging Papers (Census)	952.1	942.0	867.0	858.6	693.5	828.7
Wrapping	205.7	204.4	158.1	143.1	115.3	126.4
Bag and Sack (Exc. Shipping Sack)	234.7	240.8	254.2	245.2	227.8	273.9
Shipping Sack	101.9	105.1	104.4	130.2	95.3	127.6
Other Converting 1/	409.8	391.7	350.4	340.1	255.1	300.8
Glassine, Grsprf. and Veg. Parch. (Census)	205.8	234.0	230.5	240.5	191.2	207.2
Special Industrial Papers (Census)	**438.3**	**506.8**	**610.1**	**598.0**	**440.4**	**573.6**
Total Tissue Papers (Census)	**3,832.6**	**3,976.6**	**4,038.8**	**4,086.4**	**3,979.4**	**4,183.6**
Total Sanitary Tissue Stock	**3,604.3**	**3,746.2**	**3,771.8**	**3,823.2**	**3,771.9**	**3,954.6**
Toilet Tissue	1,376.2	1,398.7	1,440.5	1,466.1	1,520.1	1,608.9
Facial Tissue Stock	341.1	367.2	361.8	356.9	339.8	335.1
Napkin Stock	394.7	419.3	447.7	442.5	462.1	455.2
Towelling	1,183.7	1,249.4	1,276.4	1,333.2	1,248.5	1,323.2
Wiper Stock	54.9	59.4	61.3	45.3	37.0	46.4
Other Sanitary Tissue	253.8	252.2	184.1	179.2	164.6	185.9
Total All Other Tissue	**228.3**	**230.5**	**267.0**	**263.2**	**207.5**	**228.9**

NOTE (Census): Current Industrial Report, Pulp, Paper and Board

1/ Excludes Bleached Kraft Envelope Paper

Basis weight change from 32 lb. to 30 lb.

RS Revised Series

TABLE II (Cont.)

TOTAL PAPER SHIPMENTS

1959 - 1982

(Thousands of Tons)

	1977	1978	1979	1980R	1981R	1982P
TOTAL PAPER, ALL GRADES	**27,869.8**	**28,469.5**	**29,842.2**	**30,194.6**	**31,030.0**	**30,422.4**
Newsprint Production	**3,870.5**	**3,767.5**	**4,061.9**	**4,672.3**	**5,238.6**	**5,041.9**
Total Printing-Writing Papers	**13,896.5**	**14,607.6**	**15,354.4**	**15,576.8**	**15,722.2**	**15,643.0**
Uncoated Groundwood	**1,359.7**	**1,354.4**	**1,509.0**	**1,498.0**	**1,462.9**	1,458.5
Publishing and Printing	1,082.4	1,061.0	1,186.0	1,177.9	1,110.3	1,108.9
Converting	277.3	293.4	323.0	320.1	352.6	349.6
Coated Papers	**4,261.4**	**4,453.3**	**4,526.6**	**4,672.6**	**4,940.1**	**5,031.9**
Uncoated Free Sheet Papers	**6,776.6**	**7,231.3**	**7,844.6**	**8,015.7**	**7,898.1**	**7,847.4**
Chemical Wood Pulp Writing Papers	**3,512.1**	**3,782.4**	**4,072.8**	**4,312.5**	**4,263.8**	4,214.2
Bond and Writing	1,344.3	1,415.2	1,566.3	1,775.3	1,674.5	1,733.9
Form Bond	1,212.5	1,339.6	1,463.3	1,509.3	1,597.5	1,546.4
Ledger	59.6	57.4	57.6	50.8	49.3	48.3
Mimeograph	92.3	91.9	85.6	90.9	75.5	53.0
Duplicating	147.0	149.5	153.3	173.6	147.6	139.8
Manifold	9.2	12.1	10.8	8.9	4.0	3.1
Papeterie and Wedding	43.6	49.2	56.4	46.2	45.6	42.0
Opaque Circular	32.7	39.6	45.5	37.0	37.0	40.2
Carbonless	N.A.	N.A.	N.A.	310.8	337.4	334.8
Other	570.9	627.9	634.0	309.7	295.4	272.7
Cover and Text Papers	189.1	212.1	243.1	238.2	243.0	233.7
Other Uncoated Free Sheet	3,075.4	3,236.8	3,528.7	3,465.0	3,391.3	3,399.5
M.F., E.F. & Super Calendered	66.1	69.5	85.9	78.7	77.3	65.7
Offset	1,853.7	1,877.4	2,101.7	2,036.6	1,993.5	2,006.2
White Wove Envelope	554.4	592.3	638.8	650.9	641.3	642.1
Tablet	285.4	350.4	320.1	326.6	321.9	352.1
Kraft Envelope Papers: Total	203.3	230.2	234.4	226.2	221.5	207.8
Brown Kraft	101.1	121.1	115.6	111.7	111.0	102.2
Bleached Kraft	102.2	109.1	118.8	114.5	110.5	105.6
Other	112.5	117.0	147.8	146.0	135.8	125.6
Thin Papers	**338.7**	**351.7**	**371.4**	**333.0**	**336.2**	**322.6**
Cotton Fiber Papers	**108.5**	**114.4**	**124.6**	**125.8**	**124.6**	**117.5**
Bond and Writing	80.2	84.4	93.1	94.6	94.0	91.9
Other Business	15.6	16.3	16.6	14.3	14.2	11.8
Technical and Other	12.7	13.7	14.9	16.9	16.4	13.8
Bleached Bristols	**1,051.6**	**1,102.5**	**978.2**	**931.7**	**960.3**	865.1
Tabulating Index	338.0	310.6	217.0	202.3	152.8	125.8
Tag	177.1	207.7	208.7	177.7	194.3	168.9
File Folder	99.3	112.3	127.6	114.0	127.0	120.7
Index Bristol	135.6	143.4	137.9	147.0	143.4	130.4
Printing Bristol	46.4	51.3	53.0	52.1	51.1	49.6
Postcard	1.3	0.6	0.2	0.4	1.4	2.4
Coated Bristol	253.9	276.6	233.8	238.2	290.3	267.3
Total Packaging and Industrial Papers	**5,817.6**	**5,879.6**	**5,905.4**	**5,570.5**	**5,551.6**	**5,299.8**
Unbleached Kraft and Bleached Packaging, Glassine, Greaseproof & Vegetable Parchment	**5,294.0**	**5,385.1**	**5,374.2**	**5,106.8**	**4,757.7**[2/]	**4,856.5**[2/]
Unbleached Kraft Papers	3,948.4	4,010.9	4,108.4	3,961.6	3,880.0	3,687.5
Wrapping	172.9	175.2	169.3	129.5	119.1	104.6
Bag and Sack (Exc. Shipping Sack)	2,106.2	2,231.2	2,230.2	2,268.1	2,203.0	2,205.0
Shipping Sack	1,012.5	970.9	1,067.8	1,013.9	991.3	879.4
Other Converting	656.8	633.6	641.1	550.1	566.6	498.5
Bleached Packaging Papers (Census)	1,127.0*	1,115.2*	1,031.9	943.5	N.A.	N.A.
Wrapping	136.1	154.2	118.9	102.6	49.5[2/]	48.6[2/]
Bag and Sack (Exc. Shipping Sack)	304.1	276.7	250.4	228.6	208.6[2/]	211.7[2/]
Shipping Sack	106.8	91.6	102.4	92.0	77.7[2/]	82.4[2/]
Other Converting [1/]	580.0	592.7	560.2	520.3)		
Glassine, Grsprf and Veg. Parch. (Census)	218.6	259.0	233.9	201.7)	1,335.8[2/]	1,269.6[2/]
Special Industrial Papers (Census)	**523.6**	**494.5**	**531.2**	**463.7)**		
Total Tissue Papers	**4,285.2**	**4,214.8**	**4,520.5**	**4,375.0**	**4,517.6**	**4,437.7**
Total Sanitary Tissue Stock	**4,069.6**	**4,017.4**	**4,324.5**	**4,221.1**	**4,366.9**	**4,289.4**
Toilet Tissue	1,660.2	1,643.2	1,742.4	1,651.5	1,714.1	1,748.2
Facial Tissue Stock	336.0	329.0	357.9	353.3	369.4	359.3
Napkin Stock	491.9	493.1	537.2	554.7	577.8	606.2
Towelling	1,353.4	1,317.6	1,404.0	1,376.4	1,415.3	1,334.1
Wiper Stock	43.8	44.8	58.8	58.1	77.5	50.8
Other Sanitary Tissue	184.3	189.6	224.2	227.1	213.1	190.8
Total All Other Tissue	**216.0**	**197.4**	**196.0**	**153.9**	**150.8**	**148.4**

1/ Excludes Bleached Kraft Envelope Paper 2/ API data R - Revised P - Preliminary

NOTE (Census): Current Industrial Report, Pulp, Paper and Board

* Data overstated by about 10%, based on 1980 revision of 1979 data

TABLE III

PAPERBOARD PRODUCTION 1955-1982

BY END USE

TONS

YEAR	PAPERBOARD TOTAL	CONTAINERBOARD-DOMESTIC USE Total	Linerboard	Corrugating Material	Chip and Filler Boards
1955	14,043,700	7,244,200	4,789,600	2,165,400	289,200
1956	14,371,600	7,451,300	4,933,400	2,249,500	268,400
1957	14,181,900	7,337,200	4,869,700	2,215,600	251,900
1958	14,237,000	7,259,200	4,818,900	2,191,300	249,000
1959	15,972,000	8,232,000	5,475,400	2,498,800	257,800
1960	15,926,500	8,186,600	5,474,800	2,461,000	250,800
1961	16,727,300	8,661,300	5,753,900	2,649,300	258,100
1962	17,847,400	9,299,000	6,216,500	2,822,100	260,400
1963	18,593,600	9,638,300	6,414,000	2,961,800	262,500
1964	19,953,800	10,341,900	6,907,500	3,165,100	269,300
1965	21,331,500	11,199,100	7,480,600	3,438,200	280,300
1966	23,178,600	12,459,600	8,347,300	3,799,800	312,500
1967	22,819,300	12,248,600	8,215,600	3,743,500	289,500
1968	24,903,600	13,388,400	9,043,700	4,061,900	282,800
1969	26,375,700	14,396,400	9,692,500	4,395,400	308,600
1970	25,383,000	13,964,300	9,403,100	4,264,000	297,200
1971	26,037,000	14,353,000	9,530,800	4,519,700	302,500
1972	28,502,500	16,019,000	10,856,500	4,846,500	315,900
1973	29,571,500	16,928,100	11,355,900	5,255,000	317,100
1974	28,914,900	16,767,000	11,305,400	5,179,200	282,300
1975	24,755,700	14,586,200	9,854,200	4,419,300	282,600
1976	28,439,500	16,700,200	11,375,900	5,061,500	262,900
1977	28,953,100	17,167,300	11,695,700	5,207,900	263,700
1978	30,274,900	17,908,200	12,133,700	5,503,100	271,500
1979	31,428,900	18,824,800	12,819,500	5,775,900	229,300
1980	30,952,300	18,070,200	12,393,100	5,445,600	231,500
1981	31,232,200	19,040,000	13,078,500	5,702,100	259,500
1982	29,065,300	17,507,500	11,935,500	5,341,800	230,200

TABLE III (Cont.)

PAPERBOARD PRODUCTION 1955-1982

BY END USE

TONS

YEAR	BOXBOARD-DOMESTIC USE				ALL OTHER
	Total	Folding	Set-Up	Milk Carton & Food Service	Total
1955	4,407,400	2,938,800	636,700	831,900	2,392,100
1956	4,530,300	2,970,900	636,700	922,700	2,390,000
1957	4,513,400	3,020,800	568,200	924,400	2,331,300
1958	4,533,300	3,032,500	538,600	962,200	2,444,500
1959	4,911,400	3,285,900	576,100	1,049,400	2,828,600
1960	4,894,900	3,291,200	525,100	1,078,600	2,845,000
1961	5,007,500	3,374,800	496,800	1,135,900	3,058,500
1962	5,265,200	3,501,800	523,800	1,239,600	3,283,200
1963	5,417,200	3,635,800	526,800	1,254,600	3,538,100
1964	5,580,800	3,752,300	534,000	1,294,500	4,031,100
1965	5,811,200	3,879,600	547,300	1,384,300	4,321,200
1966	6,075,900	4,040,300	559,700	1,475,900	4,643,100
1967	5,973,100	4,020,700	496,100	1,456,300	4,597,600
1968	6,334,000	4,218,300	519,500	1,596,200	5,181,200
1969	6,424,800	4,261,600	498,600	1,664,600	5,554,500
1970	6,238,700	4,079,700	466,500	1,692,500	5,180,000
1971	6,233,600	4,139,400	447,900	1,646,300	5,450,400
1972	6,551,000	4,439,800	455,100	1,656,100	5,932,500
1973	6,764,300	4,704,500	465,300	1,594,500	5,879,200
1974	6,399,000	4,426,500	403,600	1,568,900	5,748,900
1975	5,663,800	3,896,400	304,500	1,462,900	4,505,700
1976	6,564,700	4,714,600	331,500	1,518,600	5,174,500
1977	6,332,200	4,546,700	302,500	1,483,100	5,453,500
1978	6,501,200	4,702,400	332,700	1,466,100	5,865,500
1979	6,469,200	4,720,500	306,000	1,442,700	6,135,000
1980	6,153,100	4,489,900	241,500	1,421,700	6,729,000
1981	6,216,100	4,587,600	236,000	1,392,500	5,976,100
1982	5,841,000	4,333,700	223,600	1,283,700	5,716,900

TABLE IV

CONTAINERBOARD PRODUCTION 1955-1982

FOR DOMESTIC USE

TONS

YEAR	CONTAINERBOARD TOTAL	LINERBOARD		
		Total	Kraft	Recycled
1955	7,244,200	4,789,600	3,947,400	842,200
1956	7,451,300	4,933,400	4,139,600	793,800
1957	7,337,200	4,969,700	4,097,900	771,800
1958	7,259,200	4,818,900	4,110,200	708,700
1959	8,232,000	5,475,400	4,701,000	774,400
1960	8,186,600	5,474,800	4,731,200	743,600
1961	8,661,300	5,753,900	5,095,700	658,200
1962	9,299,000	6,216,500	5,514,700	701,800
1963	9,638,300	6,414,000	5,706,100	707,900
1964	10,341,900	6,907,500	6,188,000	719,500
1965	11,199,100	7,480,600	6,698,100	782,500
1966	12,459,600	8,347,300	7,550,200	797,100
1967	12,248,600	8,215,600	7,693,300	522,300
1968	13,388,400	9,043,700	8,612,200	431,500
1969	14,396,400	9,692,500	9,345,300	347,200
1970	13,964,300	9,403,100	9,133,400	269,700
1971	14,353,000	9,530,800	9,249,100	281,700
1972	16,019,000	10,856,500	10,577,600	278,900
1973	16,928,100	11,355,900	11,066,900	289,100
1974	16,767,000	11,305,400	10,838,400	467,100
1975	14,586,200	9,854,200	9,646,900	207,300
1976	16,700,200	11,375,900	11,093,200	282,700
1977	17,167,300	11,695,700	11,354,400	341,400
1978	17,908,200	12,133,700	11,877,200	256,400
1979	18,824,800	12,819,500	12,417,300	402,300
1980	18,070,200	12,393,100	11,948,600	444,500
1981	19,040,000	13,078,500	12,754,300	324,200
1982	17,507,500	11,935,500	11,656,500	279,000

TABLE IV (Cont.)

CONTAINERBOARD PRODUCTION 1955-1982

FOR DOMESTIC USE

TONS

YEAR	CORRUGATING MATERIAL			CHIP & FILLER BOARDS
	Total	Semi-Chemical	Recycled	Total
1955	2,165,400	1,470,200	695,200	289,200
1956	2,249,500	1,551,700	697,800	268,400
1957	2,215,600	1,557,800	657,800	251,900
1958	2,191,300	1,486,200	705,100	249,000
1959	2,498,800	1,786,100	712,700	257,800
1960	2,461,000	1,788,900	672,100	250,800
1961	2,649,300	2,023,500	625,800	258,100
1962	2,822,100	2,188,800	633,300	260,400
1963	2,961,800	2,287,100	674,700	262,500
1964	3,165,100	2,447,400	717,700	269,300
1965	3,438,200	2,638,200	800,000	280,300
1966	3,799,800	2,909,800	890,000	312,500
1967	3,743,500	2,982,100	761,400	289,500
1968	4,061,900	3,371,200	690,700	282,800
1969	4,395,400	3,617,000	778,400	308,000
1970	4,264,000	3,404,700	859,300	297,200
1971	4,519,700	3,580,200	939,500	302,500
1972	4,846,500	3,874,200	972,300	315,900
1973	5,255,000	4,126,500	1,128,500	317,100
1974	5,179,200	4,010,300	1,169,000	282,300
1975	4,449,300	3,579,400	870,000	282,600
1976	5,061,500	3,986,500	1,075,100	262,900
1977	5,207,900	4,128,200	1,079,700	253,700
1978	5,503,100	4,305,300	1,197,800	271,500
1979	5,775,900	4,573,600	1,202,300	229,300
1980	5,445,600	4,398,500	1,047,100	231,500
1981	5,702,100	4,561,200	1,140,900	259,500
1982	5,341,800	4,202,500	1,139,300	230,200

TABLE V

BLEACHED PAPERBOARD PRODUCTION 1960 - 1982

(ON MACHINES PRIMARILY PRODUCING BLEACHED PACKAGING PAPERBOARD)

FOR PACKAGING AND NON-PACKAGING USES

TONS

YEAR	Milk Cartons	Folding Cartons	Heavyweight Cup, Rounded Nested Food Containers and Cup Lids	Plate Dish and Tray	Other Packaging Uses*	Linerboard
1960	571,000	745,200	287,400	123,700	136,200	76,000
1961	600,500	797,600	312,900	127,900	146,100	103,500
1962	678,500	865,100	324,400	148,400	139,200	124,200
1963	677,100	943,000	325,300	160,200	153,400	124,200
1964	692,000	988,800	329,200	178,800	182,[illegible]0	101,100
1965	752,100	1,051,600	339,000	202,100	182,600	75,000
1966	783,200	1,100,700	367,200	232,100	200,400	100,300
1967	772,800	1,133,800	368,600	247,300	171,400	89,500
1968	848,800	1,234,100	412,000	258,900	195,100	104,900
1969	884,600	1,346,000	416,200	282,200	200,900	113,600
1970	940,700	1,265,900	386,900	287,200	221,600	102,800
1971	918,800	1,394,900	366,700	278,100	280,900	108,200
1972	894,400	1,575,700	395,600	315,900	308,700	117,200
1973	871,200	1,730,300	410,400	296,600	348,500	114,400
1974	850,200	1,678,700	415,800	289,800	382,700	92,700
1975	865,800	1,458,000	350,600	234,200	315,800	76,700
1976	822,900	1,799,500	412,300	266,800	402,200	91,400
1977	808,700	1,582,000	401,300	262,400	525,200	80,200
1978	731,200	1,763,400	418,500	307,100	594,900	109,500
1979**	718,700	1,713,600	432,000	274,100	686,900	110,900
1980	677,600	1,574,700	419,500	298,400	739,300	96,300
1981	631,800	1,655,000	441,600	287,400	738,700	100,600
1982	590,500	1,566,900	374,800	274,500	708,200	93,400

* - Includes Exports
** - Starting in 1979 lightweight cup is included with heavyweight cup.

TABLE V (Cont.)

BLEACHED PAPERBOARD PRODUCTION 1960 - 1982

(ON MACHINES PRIMARILY PRODUCING BLEACHED PACKAGING PAPERBOARD)

FOR PACKAGING AND NON-PACKAGING USES

TONS

	SUMMARY OF PACKAGING PAPERBOARD			NON-PKG. USES	BLEACHED PAPERBOARD PRODUCTION
YEAR	Total Packaging Paperboard	Milk Carton and Food Service	Balance of Packaging Uses	Total	TOTAL
1960	1,939,500	1,078,600	860,900	119,700	2,059,200
1961	2,088,500	1,135,900	952,600	151,500	2,240,000
1962	2,279,800	1,239,600	1,040,200	173,600	2,453,400
1963	2,383,200	1,254,600	1,128,600	181,800	2,565,000
1964	2,472,200	1,294,500	1,177,700	220,800	2,693,000
1965	2,602,600	1,384,300	1,218,300	244,400	2,847,000
1966	2,783,900	1,475,900	1,308,000	301,400	3,085,300
1967	2,783,400	1,456,300	1,327,100	273,800	3,057,200
1968	3,053,800	1,596,200	1,457,600	314,100	3,367,900
1969	3,243,500	1,664,600	1,578,900	316,400	3,559,900
1970	3,205,100	1,692,500	1,512,600	167,800	3,372,900
1971	3,347,600	1,646,300	1,701,300	60,500	3,408,100
1972	3,607,500	1,656,100	1,951,400	101,800	3,709,300
1973	3,771,400	1,594,500	2,176,900	81,500	3,852,900
1974	3,709,800	1,568,900	2,140,900	59,500	3,769,300
1975	3,301,000	1,462,900	1,838,200	40,300	3,341,400
1976	3,795,200	1,518,600	2,276,600	43,400	3,838,500
1977	3,669,700	1,483,100	2,186,600	47,300	3,717,000
1978	3,924,700	1,466,100	2,458,600	47,700	3,972,400
1979	3,956,200	1,442,700	2,493,500	61,900	3,998,100
1980	3,806,000	1,421,700	2,384,300	56,200	3,862,300
1981	3,855,100	1,392,500	2,462,600	54,800	3,909,900
1982	3,608,400	1,283,700	2,324,700	56,400	3,664,700

TABLE VI

PAPERBOARD PRODUCTION BY REGION

1965 - 1982

TONS

YEAR	PAPERBOARD TOTAL	CONTAINERBOARD-DOMESTIC Total	Linerboard	Corrugating Material	Container Chip & Filler Boards
NORTH EASTERN					
1965	2,874,700	710,800	192,700	481,100	37,000
1966	2,992,100	767,700	208,100	521,400	38,200
1967	2,810,100	695,200	121,500	539,000	34,700
1968	2,820,900	675,700	100,900	534,600	40,200
1969	2,769,600	687,000	83,000	569,200	34,800
1970	2,627,800	653,400	60,100	556,600	36,700
1971	2,525,300	634,800	54,400	551,100	29,300
1972	2,622,700	645,800	54,700	562,300	28,800
1973	2,733,800	725,300	56,900	615,300	53,100
1974	2,677,500	852,100	152,700	642,000	57,400
1975	2,052,000	536,400	35,200	445,400	55,800
1976	2,255,000	566,200	70,800	448,200	47,200
1977	2,247,100	562,800	70,800	446,600	45,500
1978	2,284,400	561,300	37,400	470,200	53,700
1979	2,259,800	564,200	61,400	456,700	46,100
1980	2,042,800	486,900	27,300	415,200	44,400
1981	1,867,700	369,900	-	328,500	41,400
1982	1,651,800	342,700	10,800	295,600	36,400
SOUTHERN					
1965	11,270,100	6,680,400	5,330,100	1,318,300	32,000
1966	12,379,900	7,362,500	5,852,500	1,468,800	41,200
1967	12,537,100	7,435,600	5,964,900	1,435,600	35,100
1968	14,081,800	8,313,400	6,740,600	1,538,200	34,600
1969	15,433,100	9,181,100	7,488,200	1,651,400	41,500
1970	15,078,400	8,961,400	7,306,700	1,618,400	36,300
1971	15,782,300	9,330,600	7,507,500	1,789,600	33,500
1972	17,484,000	10,671,200	8,658,700	1,988,000	24,500
1973	18,179,900	11,257,000	9,083,700	2,158,900	14,400
1974	17,878,400	11,006,800	8,883,300	2,111,000	12,400
1975	15,752,600	9,882,100	7,957,700	1,860,900	63,400
1976	18,121,100	11,400,600	9,178,200	2,181,400	41,100
1977	18,223,100	11,541,000	9,299,000	2,199,400	42,700
1978	19,540,200	12,268,700	9,890,100	2,331,500	47,100
1979	20,219,100	12,692,100	10,280,500	2,376,900	34,700
1980	20,192,200	12,119,900	9,897,500	2,196,400	26,000
1981	20,442,000	12,863,000	10,527,900	2,301,000	34,100
1982	19,242,700	11,872,500	9,682,400	2,157,400	32,700

NOTE: Exports are included in "All Other"
NOTE: Detail does not necessarily add to totals due to rounding.

TABLE VI (Cont.)

PAPERBOARD PRODUCTION BY REGION

1965 - 1982

TONS

YEAR	BOXBOARD-DOMESTIC				ALL OTHER
	Total	Folding	Set-Up	Milk Carton & Food Service	Total
NORTH EASTERN					
1965	1,293,000	972,100	248,800	72,100	870,900
1966	1,302,900	989,600	246,000	67,300	921,500
1967	1,233,600	954,800	214,800	64,000	881,300
1968	1,274,200	991,100	220,900	62,200	871,000
1969	1,178,800	911,900	202,200	64,700	903,800
1970	1,108,100	851,100	194,100	62,900	866,300
1971	1,003,900	767,100	176,200	60,600	886,600
1972	1,020,900	788,400	181,300	51,100	956,100
1973	961,900	752,200	181,000	28,700	1,046,700
1974	861,600	679,800	154,200	27,600	963,800
1975	724,400	582,000	116,500	26,000	791,200
1976	841,000	690,800	120,900	29,400	847,900
1977	865,000	735,400	102,500	27,200	819,300
1978	861,000	723,300	112,700	25,000	862,100
1979	840,900	721,900	85,500	33,500	854,700
1980	787,800	680,400	72,300	35,100	768,000
1981	780,100	687,900	63,400	28,800	717,700
1082	678,000	593,300	59,400	25,400	631,000
SOUTHERN					
1965	2,428,400	1,216,200	122,300	1,089,900	2,161,300
1966	2,649,200	1,309,900	128,400	1,210,900	2,368,200
1967	2,666,500	1,385,000	114,100	1,167,400	2,435,000
1968	2,944,000	1,490,200	127,800	1,326,000	2,824,400
1969	3,163,200	1,634,600	122,600	1,406,000	3,088,800
1970	3,166,000	1,628,600	113,300	1,423,900	2,951,000
1971	3,320,500	1,784,600	105,300	1,430,600	3,131,200
1972	3,519,300	1,964,100	108,400	1,446,800	3,293,600
1973	3,776,400	2,244,400	118,000	1,414,000	3,146,500
1974	3,660,200	2,168,400	105,000	1,386,800	3,211,400
1975	3,352,700	2,000,100	89,500	1,263,000	2,517,800
1976	3,931,400	2,500,700	99,800	1,330,800	2,789,100
1977	3,700,600	2,316,700	96,700	1,287,300	2,981,400
1978	3,939,800	2,534,200	104,500	1,301,100	3,331,700
1979	3,974,000	2,592,700	104,500	1,276,800	3,553,000
1980	3,149,900	1,795,200	100,400	1,254,400	4,922,400
1981	3,201,000	1,863,000	105,300	1,232,700	4,378,100
1982	3,012,800	1,761,300	94,500	1,157,000	4,357,400

NOTE: Exports are included in "All Other"
NOTE: Detail does not necessarily add to totals due to rounding.
NOTE: For this Table unbleached kraft folding has been included in the "All Other" domestic data.

TABLE VI (Cont.)

PAPERBOARD PRODUCTION BY REGION

1965 - 1982

TONS

YEAR	PAPERBOARD TOTAL	CONTAINERBOARD - DOMESTIC			
		Total	Linerboard	Corrugating Material	Container Chip & Filler Boards
NORTH CENTRAL					
1965	4,031,600	1,796,600	408,700	1,203,800	184,100
1966	4,191,700	1,880,100	400,700	1,282,600	196,800
1967	3,928,600	1,677,600	252,600	1,240,100	184,900
1968	4,174,400	1,802,200	190,100	1,431,400	180,700
1969	4,272,100	1,916,600	160,200	1,539,300	217,200
1970	3,936,000	1,788,900	110,300	1,471,000	207,600
1971	4,041,100	1,854,000	101,800	1,534,100	218,100
1972	4,245,500	1,926,000	106,400	1,597,400	222,200
1973	4,360,400	2,031,900	111,000	1,697,300	223,600
1974	4,186,500	2,005,700	176,600	1,637,900	191,200
1975	3,367,200	1,655,400	63,900	1,448,600	142,900
1976	3,928,000	1,869,900	57,000	1,663,900	148,900
1977	4,091,700	2,010,300	117,200	1,734,300	158,800
1978	4,164,200	2,127,500	98,600	1,870,400	158,500
1979	4,352,900	2,334,900	165,800	2,029,300	139,800
1980	4,137,600	2,271,100	191,400	1,943,500	136,100
1981	4,288,300	2,417,000	143,300	2,124,800	148,800
1982	3,979,300	2,210,000	103,900	1,984,300	121,800
PACIFIC COAST					
1965	3,155,100	2,011,400	1,549,000	435,100	27,300
1966	3,614,900	2,449,300	1,886,000	527,100	36,300
1967	3,543,500	2,440,300	1,876,600	528,900	34,800
1968	3,826,500	2,597,100	2,012,000	557,800	27,300
1969	3,900,900	2,611,800	1,961,100	635,600	15,100
1970	3,740,800	2,560,600	1,926,000	618,000	16,600
1971	3,688,300	2,533,600	1,867,000	644,900	21,600
1972	4,150,200	2,776,000	2,036,800	698,800	40,400
1973	4,297,500	2,914,000	2,104,400	783,500	16,100
1974	4,172,500	2,902,400	2,092,900	788,300	21,200
1975	3,583,900	2,512,300	1,797,400	694,400	20,500
1976	4,135,300	2,863,500	2,069,900	768,000	25,600
1977	4,391,300	3,053,100	2,208,800	827,600	16,800
1978	4,286,200	2,950,800	2,107,500	831,000	12,300
1979	4,597,200	3,233,600	2,311,800	913,000	8,800
1980	4,579,700	3,192,300	2,276,800	890,500	25,000
1981	4,634,300	3,390,200	2,407,300	947,800	35,100
1982	4,191,700	3,082,400	2,138,500	904,600	39,300

NOTE: Exports are included in "All Other"
NOTE: Detail does not necessarily add to totals due to rounding.

TABLE VI (Cont.)

PAPERBOARD PRODUCTION BY REGION

1965 - 1982

TONS

YEAR	BOXBOARD-DOMESTIC				ALL OTHER
	Total	Folding	Set-Up	Milk Carton & Food Service	Total
NORTH CENTRAL					
1965	1,517,300	1,288,600	150,000	78,700	717,700
1966	1,541,900	1,316,300	160,300	65,300	769,700
1967	1,489,300	1,288,300	140,800	60,200	761,700
1968	1,489,100	1,295,100	150,200	43,800	883,100
1969	1,458,000	1,279,300	154,100	24,600	897,500
1970	1,338,300	1,194,300	133,500	10,500	808,800
1971	1,345,500	1,195,800	140,900	8,800	841,600
1972	1,396,300	1,246,000	141,800	8,500	923,200
1973	1,379,400	1,236,300	142,700	400	949,200
1974	1,262,300	1,137,600	124,600	100	918,500
1975	1,018,400	937,200	80,600	600	693,400
1976	1,177,900	1,089,800	88,000	100	880,200
1977	1,165,200	1,077,500	87,700	-	916,200
1978	1,123,900	1,031,800	92,100	-	912,800
1979	1,105,500	1,009,700	95,800	-	912,500
1980	1,030,600	978,200	52,500	-	835,900
1981	1,062,300	1,011,800	50,500	-	809,000
1982	1,035,100	984,200	50,900	-	734,200
PACIFIC COAST					
1965	572,600	402,800	26,200	143,600	571,100
1966	582,000	424,500	25,000	132,500	583,600
1967	583,600	392,600	26,300	164,700	519,600
1968	626,800	442,000	20,600	164,200	602,600
1969	624,800	435,800	19,700	169,300	664,300
1970	626,200	405,400	25,500	195,300	554,000
1971	563,700	391,900	25,400	146,400	591,000
1972	614,700	441,300	23,600	149,800	759,600
1973	646,600	471,600	23,600	151,400	736,900
1974	615,000	440,800	19,900	154,300	655,100
1975	568,300	377,200	17,800	173,300	503,300
1976	614,500	433,300	22,800	158,400	657,300
1977	601,400	417,100	15,700	168,600	736,800
1978	576,500	413,100	23,400	140,000	759,000
1979	548,800	396,200	20,200	132,400	814,800
1980	504,400	355,700	16,400	132,300	883,000
1981	500,900	353,100	16,700	131,100	743,100
1982	424,500	304,400	18,800	101,300	684,800

NOTE: Exports are included in "All Other"
NOTE: Detail does not necessarily add to totals due to rounding
NOTE: For this Table unbleached kraft folding has been included in the "All Other" domestic data.

TABLE VII

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1968 - 1982

TONS

YEAR	CONTAINERBOARD - DOMESTIC				BOXBOARD - DOMESTIC		
	Total	Linerboard	Corrugating Material	Container Chip & Filler Board	Total	Folding	Set-Up
Total Paperboard							
1968	13,388,400	9,043,700	4,061,900	282,800	6,334,000	4,218,300	519,500
1969	14,396,500	9,692,500	4,395,400	308,600	6,424,800	4,261,600	498,600
1970	13,964,300	9,403,100	4,264,000	297,200	6,238,700	4,079,700	466,500
1971	14,353,000	9,530,800	4,519,700	302,500	6,233,600	4,139,400	447,900
1972	16,018,900	10,856,500	4,846,500	315,900	6,551,000	4,439,800	455,100
1973	16,928,100	11,355,900	5,255,000	317,100	6,764,300	4,704,500	465,300
1974	16,767,000	11,305,400	5,179,200	282,300	6,399,000	4,426,500	403,600
1975	14,586,200	9,854,200	4,449,300	282,600	5,663,800	3,896,400	304,500
1976	16,700,200	11,375,900	5,061,500	262,900	6,564,700	4,714,600	331,500
1977	17,167,300	11,695,700	5,207,900	263,700	6,332,200	4,546,700	302,500
1978	17,908,200	12,133,700	5,503,100	271,500	6,501,200	4,702,400	332,700
1979	18,824,800	12,819,600	5,775,900	229,300	6,469,200	4,720,500	306,000
1980	18,070,200	12,393,100	5,445,600	231,500	6,153,100	4,489,900	241,500
1981	19,040,000	13,078,500	5,702,100	259,500	6,216,100	4,587,600	236,000
1982	17,507,600	11,935,500	5,341,800	230,200	5,841,000	4,333,700	223,600
Unbleached Kraft							
1968	8,535,500	8,511,400	7,400	16,700	261,000	261,000	-
1969	9,242,100	9,210,700	8,100	23,300	287,200	287,200	-
1970	9,043,900	9,014,600	3,800	25,500	343,400	343,400	-
1971	9,155,300	9,124,700	1,100	29,500	339,600	339,600	-
1972	10,469,900	10,447,800	-	22,100	389,700	389,700	-
1973	10,951,600	10,939,100	2,300	10,200	454,800	454,800	-
1974	10,754,200	10,739,000	3,800	11,500	469,700	469,700	-
1975	9,586,000	9,565,200	8,700	12,100	463,000	463,000	-
1976	11,023,900	10,993,700	20,200	10,100	577,500	577,500	-
1977	11,283,000	11,269,400	-	13,600	588,000	588,000	-
1978	11,779,700	11,761,600	-	18,100	617,600	617,600	-
1979	12,306,400	12,306,400	-	-	698,400	698,400	-
1980	11,852,300	11,852,300	-	-	680,400	680,400	-
1981	12,653,700	12,653,700	-	-	671,900	671,900	-
1982	11,563,100	11,563,100	-	-	690,600	690,600	-
Semichemical							
1968	3,366,600	-	3,363,800	2,800	-	-	-
1969	3,611,100	-	3,608,900	2,200	-	-	-
1970	3,400,900	-	3,400,900	-	-	-	-
1971	3,579,100	-	3,579,100	-	-	-	-
1972	3,874,200	-	3,874,200	-	-	-	-
1973	4,124,300	-	4,124,300	-	-	-	-
1974	4,006,500	-	4,006,500	-	-	-	-
1975	3,570,600	-	3,570,600	-	-	-	-
1976	3,966,300	-	3,966,300	-	-	-	-
1977	4,128,200	-	4,128,200	-	-	-	-
1978	4,305,300	-	4,305,300	-	-	-	-
1979	4,573,600	-	4,573,600	-	-	-	-
1980	4,398,500	-	4,398,500	-	-	-	-
1981	4,561,200	-	4,561,200	-	-	-	-
1982	4,202,500	-	4,202,500	-	-	-	-

NOTE: Details do not necessarily add to total due to rounding.
- Represents zero

TABLE VII (Cont.)

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1968 - 1982

TONS

YEAR	BOXBOARD (Cont.) Milk Carton & Food Service	ALL OTHER (Exc. Exports) TOTAL	Gypsum Wallboard Facings	Tube, Can and Drum	Balance of All Other	EXPORTS Total	ALL GRADES Total
Total Paperboard							
1968	1,596,200	3,585,200	784,000	779,900	2,021,300	1,596,000	24,903,600
1969	1,664,600	3,694,400	822,600	860,500	2,011,300	1,860,100	26,375,700
1970	1,692,500	3,280,700	775,700	887,300	1,617,700	1,899,400	25,383,000
1971	1,646,300	3,335,000	935,700	925,700	1,473,500	2,115,400	26,037,000
1972	1,656,100	3,701,100	1,016,600	1,065,500	1,619,000	2,231,400	28,502,500
1973	1,594,900	3,864,900	1,050,300	1,145,400	1,668,200	2,015,200	29,571,400
1974	1,568,900	3,599,400	984,200	1,128,500	1,486,800	2,149,500	28,914,900
1975	1,462,900	3,052,200	893,800	907,500	1,250,900	1,453,500	24,755,700
1976	1,518,600	3,465,300	984,500	1,015,500	1,464,300	1,709,200	28,439,500
1977	1,483,100	3,623,100	1,056,800	1,075,900	1,490,400	1,830,500	28,953,100
1978	1,466,100R	3,825,500	1,094,000	1,163,000	1,568,500	2,040,000R	30,274,900
1979	1,442,700R	3,873,000	1,179,900	1,177,200	1,515,900	2,262,000R	31,428,900
1980	1,421,700	3,394,800	918,800	1,077,600	1,398,400	3,334,100R	30,952,300
1981	1,392,500	3,354,000	887,600	1,114,600	1,351,700	2,622,000	31,232,200
1982	1,283,700	3,063,000	805,200	1,046,200	1,211,700	2,653,800	29,065,300
Unbleached Kraft							
1968	-	584,600	-	175,400	409,200	1,380,700	10,761,800
1969	-	604,200	-	187,300	416,900	1,682,800	11,816,300
1970	-	470,400	-	175,400	295,000	1,683,400	11,541,100
1971	-	470,900	-	194,500	276,400	1,834,300	11,800,100
1972	-	521,500	-	223,200	298,300	1,887,500	13,268,700
1973	-	559,300	-	226,200	333,100	1,596,700	13,562,500
1974	-	526,300	-	231,000	295,200	1,582,700	13,332,900
1975	-	435,900	-	175,900	260,000	1,058,000	11,542,800
1976	-	483,500	-	217,500	266,000	1,247,300	13,332,200
1977	-	490,300	-	227,800	262,500	1,289,600	13,650,800
1978	-	508,900	-	250,600	258,300	1,466,300	14,372,500
1979	-	500,800	-	267,000	233,800	1,645,300	15,151,000
1980	-	382,800	-	226,400	156,400	2,379,800	15,295,200
1981	-	390,200	-	219,300	170,900	1,886,600	15,602,400
1982	-	349,700	-	192,900	156,800	1,931,400	14,534,800
Semichemical							
1968	-	14,400	-	12,300	2,100	94,000	3,475,000
1969	-	33,000	-	13,500	19,500	52,400	3,696,500
1970	-	33,200	-	23,700	9,500	84,300	3,518,400
1971	-	16,900	-	14,100	2,800	104,000	3,700,000
1972	-	23,600	-	17,700	5,900	111,700	4,009,600
1973	-	28,600	-	18,300	10,300	107,400	4,260,300
1974	-	23,300	-	17,400	6,000	145,500	4,175,400
1975	-	15,900	-	14,000	1,900	115,400	3,701,800
1976	-	19,300	-	18,100	1,200	119,300	4,105,000
1977	-	14,300	-	14,300	-	121,900	4,264,400
1978	-	14,800	-	14,600	200	119,200	4,439,300
1979	-	17,400	-	10,800	6,600	98,200	4,689,100
1980	-	2,700	-	2,400	300	322,300	4,723,500
1981	-	2,700	-	2,600	100	155,200	4,719,200
1982	-	1,800	-	1,300	500	184,900	4,389,300

NOTE: Details do not necessarily add to total due to rounding.
- Represents zero.

TABLE VII (Cont.)

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1968 - 1982

TONS

YEAR	CONTAINERBOARD - DOMESTIC				BOXBOARD - DOMESTIC		
	Total	Linerboard	Corrugating Material	Container Chip & Filler Board	Total	Folding	Set-Up
Solid Bleached							
1968	125,000	125,000	-	-	2,773,900	1,226,900	-
1969	134,700	134,700	-	-	2,970,300	1,345,900	-
1970	118,800	118,800	-	-	2,912,300	1,263,300	-
1971	124,400	124,400	-	-	2,996,400	1,392,100	-
1972	129,800	129,800	-	-	3,196,300	1,572,800	-
1973	127,700	127,700	-	-	3,322,600	1,728,200	-
1974	99,400	99,400	-	-	3,244,600	1,675,900	-
1975	81,800	81,800	-	-	2,917,700	1,455,600	-
1976	99,500	99,500	-	-	3,315,700	1,797,200	-
1977	85,000	85,000	-	-	3,074,500	1,591,500	
1978	115,700	115,700	-	-	3,229,500	1,763,400	-
1979	110,900	110,900	-	-	3,156,200	1,713,600	-
1980	96,300	96,300	-	-	2,996,400	1,574,700	-
1981	100,600	100,600	-	-	3,047,500	1,655,000	-
1982	93,400	93,400	-	-	2,850,600	1,566,900	-
Recycled							
1968	1,361,300	407,300	690,700	263,300	3,299,100	2,730,400	519,500
1969	1,408,600	347,100	778,400	283,100	3,167,300	2,628,500	498,600
1970	1,400,700	269,700	859,300	271,300	2,983,000	2,473,000	466,500
1971	1,494,100	281,700	939,500	272,900	2,897,700	2,407,700	447,900
1972	1,545,000	278,900	972,300	293,800	2,964,900	2,477,200	455,100
1973	1,724,500	289,100	1,128,500	306,900	2,987,000	2,521,600	465,300
1974	1,906,800	467,100	1,169,000	270,800	2,684,800	2,280,900	403,600
1975	1,347,700	207,300	870,000	270,400	2,283,200	1,977,900	304,500
1976	1,610,500	282,700	1,075,100	252,800	2,671,600	2,340,000	331,500
1977	1,671,100	341,400	1,079,700	250,100	2,669,700	2,367,200	302,500
1978	1,707,600	256,400	1,197,800	253,400	2,654,100	2,321,400	332,700
1979	1,833,900	402,300	1,202,300	229,300	2,614,500	2,308,500	306,000
1980	1,723,100	444,500	1,047,100	231,500	2,476,300	2,234,800	241,500
1981	1,724,500	324,200	1,140,800	259,500	2,496,800	2,260,800	236,000
1982	1,648,500	279,000	1,139,300	230,200	2,299,800	2,076,200	223,600

NOTE: Details do not necessarily add to total due to rounding.
- Represents zero

TABLE VII (Cont.)

PAPERBOARD PRODUCTION

BY GRADE AND TYPE 1968 - 1982

TONS

YEAR	BOXBOARD (Cont.) Milk Carton & Food Service	ALL OTHER (Exc. Exports) TOTAL	Gypsum Wallboard Facings	Tube, Can and Drum	Balance of All Other	EXPORTS Total	ALL GRADES TOTAL
Solid Bleached							
1968	1,547,000	316,400	-	7,800	308,600	108,500	3,323,800
1969	1,624,400	327,700	-	8,300	319,400	108,100	3,540,800
1970	1,649,000	197,400	-	-	197,400	114,400	3,342,900
1971	1,604,300	104,000	-	-	104,000	156,500	3,381,300
1972	1,623,500	142,500	-	-	142,500	217,800	3,686,400
1973	1,594,400	133,500	-	-	133,500	280,300	3,864,000
1974	1,568,700	108,900	-	-	108,900	320,200	3,773,100
1975	1,462,100	87,500	-	-	87,500	256,200	3,343,300
1976	1,518,500	122,900	-	-	122,900	306,100	3,844,100
1977	1,483,100	172,400	-	-	172,400	389,400	3,721,300
1978	1,466,100	200,500	-	-	200,500	432,900	3,978,600
1979	1,442,700	234,300	-	-	234,300	496,700	3,998,100
1980	1,421,700	220,100	-	-	220,100	549,400	3,862,300
1981	1,392,500	205,300	-	-	205,300	556,600	3,909,900
1982	1,283,700	196,000	-	-	196,000	524,700	3,664,700
Recycled							
1968	49,200	2,669,800	784,000	584,400	1,301,400	12,800	7,343,000
1969	40,200	2,729,500	822,600	651,400	1,255,500	16,800	7,322,300
1970	43,500	2,579,600	775,700	688,200	1,115,800	17,300	6,980,500
1971	42,100	2,743,100	935,700	717,100	1,090,300	20,600	7,155,500
1972	32,600	3,013,400	1,016,600	824,600	1,172,200	14,400	7,537,800
1973	100	3,142,500	1,050,300	900,900	1,191,300	30,800	7,884,600
1974	200	2,941,000	984,200	880,100	1,076,700	101,000	7,633,500
1975	800	2,512,900	893,800	717,600	901,500	23,900	6,167,700
1976	100	2,839,600	984,500	780,900	1,074,200	36,500	7,158,100
1977	-	2,946,100	1,056,800	833,700	1,055,500	29,600	7,316,500
1978	-	3,101,400	1,094,000	897,900	1,109,500	21,600	7,484,500
1979	-	3,120,500	1,179,900	899,400	1,041,220	21,800	7,590,700
1980	-	2,789,300	918,800	848,900	1,021,600	82,600	7,071,300
1981	-	2,755,700	887,600	892,700	975,300	23,800	7,000,700
1982	-	2,515,400	805,200	852,000	858,300	12,700	6,476,500

NOTE: Details do not necessarily add to total due to rounding.
- Represents zero.

TABLE VIII

PAPERBOARD PRODUCTION

BY MONTHS

1982

TONS

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
Containerboard-Domestic Use	1,387,800	1,444,700	1,600,100	1,503,300	1,515,700	1,449,500
Linerboard	924,200	999,600	1,104,300	1,037,900	1,034,000	983,300
Kraft	899,500	972,000	1,074,900	1,008,200	1,004,700	962,200
Recycled	24,700	27,600	29,300	29,700	29,300	21,100
Corrugating	444,000	423,700	473,700	444,000	458,000	444,500
Semichemical	359,900	341,000	375,600	355,700	360,600	354,700
Recycled	84,100	82,700	98,100	88,200	97,400	89,800
Container Chip	19,600	21,400	22,100	21,500	23,600	21,700
Boxboard-Domestic Use	441,200	433,400	477,200	443,500	446,200	428,100
Folding	303,500	305,400	342,200	316,300	306,500	299,600
Set-Up	19,600	19,100	21,800	20,800	18,400	18,700
Milk Carton & Food Service	118,100	109,000	113,200	106,300	121,300	109,800
All Other	512,100	536,500	605,300	542,900	592,100	546,200
Domestic	318,200	310,500	351,800	321,800	338,200	306,800
Export	193,900	226,000	253,500	221,100	253,900	239,400
TOTAL PAPERBOARD	2,341,100	2,414,700	2,682,500	2,489,600	2,554,000	2,423,700

NOTE: Totals do not add due to rounding.
NOTE: For this table unbleached kraft folding has been included in the "All Other" domestic data.

TABLE IX

BOX PLANT CONSUMPTION

BY MONTHS

1982

TONS

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE
Linerboard and Corrugating Material	1,378,200	1,348,500	1,563,700	1,457,800	1,355,000	1,452,800
Total Containerboard	1,379,900	1,350,600	1,567,100	1,460,400	1,357,500	1,455,800

SOURCE: Box Plant Consumption - Fibre Box Association

TABLE VIII (Cont.)

PAPERBOARD PRODUCTION

BY MONTHS

1982

TONS

	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Containerboard-Domestic	1,310,100	1,501,400	1,462,800	1,557,900	1,556,800	1,217,500	17,507,600
Linerboard	872,800	1,044,800	997,300	1,059,200	1,081,500	796,600	11,935,500
Kraft	852,100	1,022,400	974,800	1,038,200	1,062,400	784,900	11,656,500
Recycled	20,700	22,400	22,500	21,000	19,100	11,600	279,000
Corrugating	417,000	438,700	447,500	481,900	459,800	408,900	5,341,800
Semichemical	328,300	335,100	351,300	366,400	355,100	319,000	4,202,500
Recycled	88,700	103,700	96,300	115,600	104,800	89,900	1,139,300
Container Chip	20,300	17,900	17,900	16,800	15,500	12,000	230,200
Boxboard-Domestic	392,100	453,200	417,500	434,200	418,000	365,900	5,150,400
Folding	280,900	320,400	304,300	315,500	290,500	258,000	3,643,100
Set-Up	14,700	20,100	19,900	19,900	17,600	13,000	223,600
Milk Carton & Food Service	96,500	112,700	93,300	98,800	110,000	94,900	1,283,700
All Other	503,400	564,700	518,300	526,000	502,500	457,200	6,407,400
Domestic	292,700	335,700	303,300	317,700	294,500	262,500	3,753,600
Export	210,700	229,000	215,000	208,400	207,900	194,700	2,653,800
TOTAL PAPERBOARD	2,205,700	2,519,300	2,398,600	2,518,100	2,477,300	2,040,600	29,065,300

NOTE: Totals do not add due to rounding.
NOTE: For this table unbleached kraft folding has been included in the "All Other" domestic data.

TABLE IX (Cont.)

BOX PLANT CONSUMPTION

BY MONTHS

1982

TONS

	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Linerboard and Corrugating Material	1,348,800	1,472,400	1,535,100	1,525,100	1,389,100	1,262,200	17,088,700
Total Containerboard	1,351,800	1,475,400	1,537,800	1,527,400	1,391,500	1,262,800	17,117,900

SOURCE: Box Plant Consumption - Fibre Box Association

TABLE X

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

1959-1982

000 Short Tons	1959	1960	1961	1962	1963	1964
Production - Total	33,748	33,904	35,178	37,062	38,647	40,962
Total Paper	15,025	15,295	15,821	16,560	17,320	18,112
Total Paperboard	15,972	15,926	16,727	17,847	18,594	19,954
Unbleached Kraft E	5,214	5,342	5,814	6,316	6,750	7,600
Semichemical E	1,774	1,791	2,017	2,198	2,304	2,481
Bleached Kraft E *	2,000	2,039	2,218	2,429	2,539	2,666
Recycled E	6,984	6,754	6,678	6,905	7,001	7,207
Wet Machine Board	145	175	155	146	141	148
Building Paper	1,435	1,410	1,391	1,429	1,453	1,533
Insulating Board	1,171	1,098	1,084	1,080	1,139	1,215
New Supply						
Total Paper	20,120	20,490	20,928	21,781	22,475	23,748
Newsprint	7,118	7,329	7,294	7,460	7,498	8,051
Printing/Writing Papers	6,863	7,077	7,329	7,772	8,153	8,655
Uncoated Grounded	933	960	933	942	990	1,053
Coated	1,967	2,096	2,138	2,266	2,398	2,572
Uncoated Free Sheet	3,051	3,076	3,239	3,431	3,609	3,824
Thin and Cotton Fiber	244	251	260	290	287	301
Bleached Bristols	668	694	759	843	869	905
Packaging and Ind. Conv. Papers	4,023	3,893	3,997	4,143	4,258	4,316
Unbleached Kraft	2,796	2,730	2,767	2,889	3,024	3,038
Other	1,227	1,163	1,230	1,254	1,234	1,278
Tissue	2,116	2,191	2,305	2,406	2,566	2,725
Total Paperboard	15,604	15,475	16,201	17,312	17,941	18,976
Unbleached Kraft	4,902	4,970	5,417	5,890	6,254	6,843
Semichemical	1,753	1,760	1,955	2,154	2,221	2,374
Bleached Board	1,983	2,016	2,186	2,396	2,500	2,621
Recycled	6,966	6,729	6,643	6,872	6,966	7,138
Construction and Other	2,752	2,675	2,610	2,644	2,733	2,917
Total All Grades	38,476	38,640	39,739	41,737	43,149	45,641
Paper and Products	20,072	20,441	20,953	21,794	22,438	23,689
Paperboard and Products	15,534	15,401	16,083	17,178	17,810	18,871
Total Including Products	38,358	38,517	39,646	41,616	42,981	45,477
Real G.N.P. - $ Bil., 1972 Prices Revised Series	**721.7**	**737.2**	**756.6**	**800.3**	**832.5**	**876.4**
New Supply to Real G.N.P - Revised						
Total Paper	27.879	27.794	27.661	27.216	26.997	27.097
Newsprint	9.863	9.942	9.640	9.322	9.007	9.186
Printing/Writing Papers	9.509	9.600	9.687	9.711	9.793	9.876
Uncoated Groundwood	1.293	1.302	1.233	1.177	1.189	1.201
Coated	2.726	2.843	2.826	2.832	2.881	2.934
Uncoated Free Sheet	4.228	4.173	4.281	4.287	4.335	4.364
Thin and Cotton Fiber	.338	.340	.344	.362	.345	.343
Bleached Bristols	.926	.941	1.003	1.053	1.044	1.032
Packaging and Ind. Conv. Papers	5.574	5.281	5.283	5.177	5.114	4.924
Unbleached Kraft	3.874	3.703	3.657	3.610	3.632	3.466
Other	1.700	1.578	1.626	1.567	1.482	1.458
Tissue	2.932	2.972	3.047	3.006	3.082	3.109
Total Paperboard	21.621	20.992	21.413	21.632	21.551	21.652
Unbleached Kraft	6.792	6.742	7.160	7.360	7.512	7.808
Semichemical	2.429	2.387	2.584	2.691	2.668	2.709
Bleached Board	2.748	2.735	2.889	2.994	3.003	2.991
Recycled	9.652	9.128	8.780	8.587	8.368	8.145
Construction and Other	3.813	3.629	3.450	3.304	3.283	3.328
Total All Grades	53.313	52.415	52.523	52.152	51.831	52.078
Paper and Products	27.812	27.727	27.694	27.232	26.953	27.030
Paperboard and Products	21.524	20.891	21.257	21.464	21.393	21.532
Total Including Products	53.150	52.248	52.400	52.000	51.629	51.891

* - About 5% of this total is bleached bristols that may also be included in total paper.

NOTE: The new supply data in this table are based upon the shipments data shown in Table I and in part, on the import-export data as reported by the Bureau of the Census and published in the current and earlier issues of the Statistics of Paper and Paperboard. Imports of newsprint, uncoated groundwood paper, coated paper and uncoated free sheet paper have been adjusted to reflect Canadian data on shipments of the grades to the United States. New supply of paper and products and paperboard and products was calculated using the Census import and export totals for all grades. See Tables XXXIV and XXXV for the adjusted import and export data used. E - Estimate

TABLE X (Cont.)

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

1959-1982

000 Short Tons	1965	1966	1967	1968	1969	1970
Production - Total	43,455	46,702	46,568	50,172	52,956	51,710
Total Paper	19,157	20,725	20,926	22,206	23,477	23,375
Total Paperboard	21,332	23,179	22,819	24,904	26,376	25,383
Unbleached Kraft	8,301E	9,303E	9,485E	10,762	11,816	11,541
Semichemical	2,681E	2,969E	3,057E	3,475	3,697	3,518
Bleached Kraft	2,818E*	3,053E*	3,060E*	3,324	3,541	3,343
Recycled	7,532E	7,853E	7,217E	7,343	7,322	6,981
Wet Machine Board	144	148	144	155	148	139
Building Paper	1,574	1,495	1,503	1,574	1,603	1,594
Insulating Board	1,248	1,155	1,176	1,333	1,352	1,219
New Supply						
Total Paper	25,197	27,323	27,231	28,301	30,001	29,673
Newsprint	8,510	9,268	9,165	9,307	9,959	9,797
Printing/Writing Papers	9,348	10,362	10,208	10,556	11,278	11,073
Uncoated Groundwood	1,069	1,217	1,163	1,219	1,306	1,310
Coated	2,767	3,039	3,041	3,083	3,282	3,207
Uncoated Free Sheet	4,198	4,676	4,584	4,799	5,195	5,132
Thin and Cotton Fiber	314	351	345	351	371	353
Bleached Bristols	1,000	1,079	1,077	1,104	1,124	1,071
Packaging and Ind. Conv. Papers	4,473	4,610	4,645	5,003	5,173	5,105
Unbleached Kraft	3,150	3,269	3,232	3,494	3,602	3,582
Other	1,323	1,341	1,412	1,509	1,571	1,523
Tissue	2,866	3,083	3,212	3,435	3,591	3,698
Total Paperboard	20,301	22,063	21,498	23,325	24,526	23,495
Unbleached Kraft	7,401	8,332	8,317	9,388	10,135	9,858
Semichemical	2,626	2,905	2,981	3,381	3,645	3,434
Bleached Board	2,771	2,994	2,999	3,216	3,432	3,229
Recycled	7,503	7,832	7,201	7,340	7,314	6,974
Construction and Other	2,972	2,789	2,825	3,073	3,105	2,972
Total All Grades	48,470	52,175	51,554	54,699	57,632	56,140
Paper and Products	25,130	27,386	27,238	28,341	30,044	29,804
Paperboard and Products	20,168	21,940	21,369	22,975	24,314	23,232
Total including Products	48,270	52,115	51,432	54 389	57,463	56,008
Real G.N.P.- $ Bil., 1972 Prices	**929.3**	**984.8**	**1,011.4**	**1,058.1**	**1,087.6**	**1,085.6**
Revised Series						
Ratio of New Supply to Real GNP - Revised						
Total Paper	27.114	27.745	26.924	26.746	27.585	27.333
Newsprint	9.157	9.411	9.062	8.796	9.157	9.025
Printing/Writing Papers	10.058	10.522	10.095	9.976	10.369	10.200
Uncoated Groundwood	1.150	1.236	1.150	1.152	1.201	1.207
Coated	2.977	3.086	3.007	2.913	3.017	2.954
Uncoated Free Sheet	4.517	4.748	4.533	4.536	4.777	4.727
Thin and Cotton Fiber	.338	.356	.341	.332	.341	.325
Bleached Bristols	1.076	1.096	1.064	1.043	1.033	.987
Packaging and Ind. Conv. Papers	4.814	4.681	4.593	4.728	4.756	4.703
Unbleached Kraft	3.390	3.319	3.197	3.302	3.312	3.300
Other	1.424	1.362	1.396	1.426	1.444	1.403
Tissue	3.084	3.131	3.176	3.246	3.302	3.406
Total Paperboard	21.846	22.404	21.255	22.044	22.551	21.641
Unbleached Kraft	7.964	8.461	8.223	8.873	9.319	9.081
Semichemical	2.826	2.950	2.947	3.195	3.351	3.163
Bleached Board	2.982	3.040	2.965	3.039	3.156	2.973
Recycled	8.074	7.953	7.120	6.937	6.725	6.424
Construction and Other	3.198	2.832	2.793	2.904	2.855	2.738
Total All Grades	52.158	52.980	50.973	51.695	52.990	51.713
Paper and Products	27.042	27.809	26.931	26.785	27.624	27.454
Paperboard and Products	21.702	22.279	21.128	21.713	22.356	21.400
Total Including Products	51.942	52.919	50.852	51.403	52.835	51.592

* - About 5% of this total is bleached bristols that may also be included in total paper
E - Estimate

TABLE X (Cont.)

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

1959-1982

000 Short Tons	1971	1972	1973	1974	1975	1976
Production - Total	53,203	57,477	59,936	59,210	51,126	58,486
Total Paper	23,745	25,383	26,811	27,011	23,391	26,608
Total Paperboard	26,037	28,502	29,571	28,915	24,756	28,440
Unbleached Kraft	11,800	13,268	13,563	13,333	11,543	13,332
Semichemical	3,700	4,010	4,260	4,175	3,702	4,105
Bleached Kraft	3,381	3,686	3,864	3,773	3,343	3,844
Recycled	7,156	7,538	7,885	7,634	6,168	7,158
Wet Machine Board	138	148	149	144	115	130
Building Paper	1,837	1,915	1,858	1,845	1,615	1,771
Insulating Board	1,446	1,529	1,547	1,295	1,249	1,434
New Supply						
Total Paper	30,105	32,058	34,041	34,323	28,393	32,648
Newsprint	9,773	10,269	10,877	10,955	9,048	9,917
Printing/Writing Papers	11,352	12,373	13,548	13,624	10,979	13,324
Uncoated Groundwood	1,323	1,334	1,388	1,460	1,316	1,588
Coated	3,165	3,455	3,757	3,739	3,076	3,890
Uncoated Free Sheet	5,449	6,034	6,759	6,822	5,322	6,459
Thin and Cotton Fiber	338	390	410	401	334	363
Bleached Bristols	1,077	1,160	1,234	1,201	931	1,024
Packaging and Ind. Conv. Papers	5,163	5,459	5,600	5,682	4,419	5,241
Unbleached Kraft	3,598	3,791	3,916	4,099RS	3,200	3,741
Other	1,565	1,668	1,684	1,583	1,219	1,500
Tissue	3,817	3,957	4,016	4,062	3,948	4,166
Total Paperboard	23,938	26,279	27,590	26,799	23,311	26,744
Unbleached Kraft	9,976	11,381	11,972	11,760	10,485	12,089
Semichemical	3,596	3,898	4,153	4,029	3,587	3,986
Bleached Board	3,224	3,468	3,584	3,453	3,087	3,538
Recycled	7,142	7,532	7,881	7,557	6,152	7,131
Construction and Other	3,467	3,650	3,604	3,301	3,001	3,367
Total All Grades	57,510	61,987	65,235	64,423	54,704	62,759
Paper and Products	30,412	32,290	34,073	33,888	28,449	32,643
Paperboard and Products	23,613	26,142	27,362	26,288	22,811	26,161
Total Including Products	57,492	62,082	65,039	63,477	54,261	62,171
Real G.N.P.- $ Bil.,1972 Prices Revised Series	**1,122.4**	**1,185.9**	**1,254.3**	**1,246.3**	**1,231.6**	**1,298.2**
Ratio of New Supply to Real G.N.P						
Total Paper	26.822	27.033	27.139	27.540	23.054	25.149
Newsprint	8.707	8.659	8.672	8.790	7.347	7.639
Printing/Writing Papers	10.115	10.433	10.801	10.932	8.914	10.263
Uncoated Groundwood	1.179	1.125	1.107	1.171	1.069	1.223
Coated	2.820	2.913	2.995	3.000	2.498	2.996
Uncoated Free Sheet	4.855	5.088	5.389	5.474	4.321	4.975
Thin and Cotton Fiber	.301	.328	.327	.322	.271	.280
Bleached Bristols	.960	.978	.984	.964	.756	.789
Packaging and Ind. Conv. Papers	4.600	4.604	4.465	4.559	3.588	4.037
Unbleached Kraft	3.206	3.197	3.122	3.289RS	2.598	2.882
Other	1.394	1.407	1.343	1.270	.990	1.155
Tissue	3.401	3.337	3.202	3.259	3.206	3.209
Total Paperboard	21.327	22.159	21.996	21.503	18.927	20.601
Unbleached Kraft	8.888	9.597	9.545	9.436	8.513	9.312
Semichemical	3.204	3.287	3.311	3.233	2.912	3.070
Bleached Board	2.872	2.924	2.857	2.771	2.506	2.725
Recycled	6.363	6.351	6.283	6.064	4.995	5.493
Construction and Other	3.090	3.078	2.873	2.649	2.437	2.594
Total All Grades	51.238	52.270	51.009	51.691	44.417	48.343
Paper and Products	27.096	27.228	27.165	27.191	23.099	25.145
Paperboard and Products	21.038	22.044	21.815	21.093	18.521	20.152
Total Including Products	51.222	52.350	51.853	50.932	44.057	47.890

NOTE: The new supply data in this table are based upon the shipments data shown in Table I and the import-export data as reported by the Bureau of the Census and published in the current and earlier issues of the Statistics of Paper and Paperboard. Imports of newsprint, uncoated groundwood paper, coated paper and uncoated free sheet paper have been adjusted to reflect Canadian data on shipments of these grades to the United States. New supply of paper and products and of paperboard and products was calculated using Census import and export totals for all grades. See Tables XXXIV and XXXV for the adjusted import and export data used. RS - Revised Series

TABLE X (Cont.)

PAPER AND PAPERBOARD

PRODUCTION, NEW SUPPLY AND NEW SUPPLY/REAL G.N.P.

1959-1982

000 Short Tons	1977	1978	1979	1980R	1981R	1982P
Production - Total	60,207	62,221	64,546	63,705	64,412	61,149
Total Paper	27,870	28,470	29,842	30,195	31,030	30,422
Total Paperboard	28,953	30,275	31,429	30,952	31,232	29,065
Unbleached Kraft	13,651	14,372	15,151	15,295	15,602	14,535
Semichemical	4,264	4,439	4,689	4,724	4,719	4,389
Bleached Kraft	3,721	3,979	3,998	3,862	3,910	3,665
Recycled	7,317	7,485	7,591	7,071	7,001	6,476
Wet Machine Board	129	136	144	138	160	129
Building Paper	1,852	1,915	1,868	1,369	1,144	898
Insulating Board	1,403	1,425	1,263	1,051	846	635
New Supply						
Total Paper	34,293	36,125	37,608	37,187	37,671	36,792
Newsprint	10,080	10,788	11,159	11,377	11,696	10,968
Printing/Writing Papers	14,279	15,287	16,121	16,163	16,160	16,286
Uncoated Groundwood	1,749	1,907	2,123	2,085	1,993	2,055
Coated	4,274	4,593	4,642	4,695	4,890	5,020
Uncoated Free Sheet	6,820	7,259	7,917	8,044	7,900	7,933
Thin and Cotton Fiber	384	435	468	415	421	417
Bleached Bristols	1,052	1,092	971	924	955	861
Packaging and Ind. Conv. Papers	5,665	5,844	5,820	5,329	5,342	5,117
Unbleached Kraft	3,863	4,030	4,112	3,852	3,802	3,622
Other	1,802*	1,814*	1,708	1,477	1,540	1,495
Tissue	4,269	4,206	4,509	4,318	4,473	4,421
Total Paperboard	27,150	28,335	29,250	27,716	28,741	26,526
Unbleached Kraft	12,376	12,938	13,532	12,959	13,764	12,639
Semichemical	4,142	4,368	4,624	4,432	4,616	4,252
Bleached Board	3,332	3,546	3,502	3,313	3,353	3,140
Recycled	7,300	7,483	7,592	7,012	7,007	6,495
Construction and Other	3,464	3,737	3,598	2,968	2,468	2,024
Total All Grades	64,907	68,196	70,455	67,871	68,880	65,342
Paper and Products	34,248	36,326	37,559	37,106	37,462	36,740
Paperboard and Products	26,696	27,897	28,840	27,198	28,180	26,164
Total Including Products	64,408	67,961	69,997	67,271	68,110	64,927
Real G.N.P.- $ Bil., 1972 Prices Revised Series	**1,369.7**	**1,438.6**	**1,479.4**	**1,475.0**	**1,513.8**	**1,485.4**
Ratio of New Supply to Real G.N.P.						
Total Paper	25.037	25.111	25.421	25.212	24.885	24.769
Newsprint	7.359	7.499	7.543	7.713	7.726	7.384
Printing/Writing Papers	10.425	10.626	10.897	10.958	10.675	10.964
Uncoated Groundwood	1.277	1.326	1.435	1.414	1.317	1.383
Coated	3.120	3.193	3.138	3.183	3.230	3.380
Uncoated Free Sheet	4.979	5.046	5.352	5.454	5.219	5.341
Thin and Cotton Fiber	.280	.302	.316	.281	.278	.281
Bleached Bristols	.768	.759	.656	.626	.631	.580
Packaging and Ind. Conv. Papers	4.136	4.063	3.934	3.613	3.529	3.445
Unbleached Kraft	2.820	2.801	2.779	2.612	2.512	2.438
Other	1.316*	1.261*	1.155	1.001	1.017	1.006
Tissue	3.117	2.923	3.048	2.927	2.955	2.976
Total Paperboard	19.822	19.696	19.771	18.791	18.986	17.858
Unbleached Kraft	9.036	8.994	9.147	8.786	9.092	8.509
Semichemical	3.024	3.036	3.126	3.005	3.049	2.863
Bleached Board	2.433	2.467	2.367	2.246	2.215	2.114
Recycled	5.330	5.201	5.132	4.754	4.629	4.373
Construction and Other	2.529	2.598	2.432	2.012	1.630	1.363
Total All Grades	47.388	47.405	47.625	46.014	45.501	43.989
Paper and Products	25.004	25.251	25.388	25.157	24.747	24.734
Paperboard and Products	19.490	19.392	19.494	18.439	18.615	17.614
Total Including Products	47.023	47.241	47.314	45.607	44.993	43.710

* Data overstated by about 10%, as indicated by revision of 1979 data in 1980 report

R - Revised P - Preliminary

TABLE XI

UNITED STATES CAPACITY TO PRODUCE PAPER AND BOARD

1972 - 1985

(THOUSANDS OF TONS)

	1972	1973	1974	1975	1976	1977	1978
TOTAL PAPER AND BOARD	59,965	62,284	63,779	64,369	65,673	66,459	67,419
Total Paper	26,545	27,621	28,532	28,922	29,210	29,831	30,460
Newsprint #	3,490	3,597	3,722*	3,848	4,014	4,069	4,104
Total Printing, Writing & Related	12,766	13,659	14,128	14,275	14,494	14,975	15,566
Groundwood Uncoated #	1,353	1,403	1,280	1,329	1,309	1,367	1,453
Coated Papers - Total	3,866	4,045	4,075	4,065	4,202	4,397	4,546
Coated Groundwood	--	--	--	2,127	2,299	2,408	2,450
Coated Free Sheet	--	--	--	1,938	1,903	1,989	2,096
Uncoated Free Sheet	5,894	6,541	7,046	7,180	7,319	7,465	7,847
Cotton Fiber	152	149	142	139	142	133	131
Thin	320	342	351	367	358	402	395
Solid Bleached Bristols	1,182	1,179	1,235	1,194	1,165	1,213	1,194
Total Packaging & Ind. Conv.	5,997	6,060	6,360	6,368	6,202	6,242	6,146
Unbleached Kraft	4,053	4,138	4,389	4,333	4,218	4,317	4,223
Bleached Packaging & Ind. Conv.	1,374	1,292	1,291	1,194**	1,128	1,069	1,041
Special Industrial	571	629	679	841	856	856	883
Tissue	4,292	4,303	4,322	4,432	4,500	4,545	4,644
Total Paperboard	29,328	30,543	30,995	31,218	32,097	32,173	32,631
Total Unbl. Kraft Pkg. & Ind. Conv.	13,458	13,898	13,965	14,157	14,568	14,793	15,054
Linerboard	12,568	12,362	12,901	13,138	13,448	13,586	13,864
Folding	393	463	479	484	595	645	650
Other	497	573	585	536	525	561	540
Total Bleached Pkg. Paperboard	3,629	3,928	3,920	3,807	3,998	4,020	4,197
Folding	1,500	1,749	1,851	1,751	1,915	1,930	1,996
Milk Carton & Food Service	1,857	1,899	1,848	1,859	1,854	1,824	1,899
Linerboard	141	139	108	95	101	97	122
Other	129	141	113	102	128	170	179
Semichemical Paperboard	4,155	4,386	4,430	4,536	4,758	4,661	4,739
Total Recycled Paperboard	8,086	8,330	8,680	8,717	8,774	8,699	8,642
Linerboard	310	306	430	364	361	392	361
Corrugating Medium	1,063	1,178	1,358	1,449	1,476	1,337	1,343
Container Chip & Filler	329	349	344	408	398	403	311
Folding	2,673	2,664	2,665	2,658	2,705	2,674	2,568
Set-Up	540	518	505	465	450	443	418
Gypsum Wall Board Facing	1,044	1,093	1,100	1,063	1,046	1,112	1,238
Other	2,127	2,221	2,278	2,310	2,337	2,337	2,403
Total Paper and Paperboard	55,873	58,164	59,527	60,140	61,307	62,004	63,091
Total Wet Machine Board	197	182	188	217	216	180	145
Total Construction Paper & Board	3,894	3,939	4,063	4,011	4,149	4,276	4,182
Construction Paper	2,070	2,102	2,165	2,270	2,317	2,364	2,352
Insulating Board	1,824	1,837	1,898	1,741	1,832	1,912	1,830
Total Hard Pressed Board ###	1,903	2,247	2,334	2,460	2,511	2,536##	2,525##

SOURCE: American Paper Institute, Paper, Paperboard and Wood Pulp Capacity Survey, various issues to December 1982.

* Average basis weight changed from 32 lbs. to 30 lbs. during 1974.

** Reflects shift of about 215,000 tons of bleached kraft envelope paper to uncoated free sheet in 1975 and later years.

\# - Not directly comparable with shipments data in Table II in 1972-1977 because of redefinition of certain grades from uncoated groundwood paper to newsprint.

- As reported in 1976 Capacity Survey.

- Hard Pressed Board not included in Total Paper and Board.

TABLE XI (Cont.)

UNITED STATES CAPACITY TO PRODUCE PAPER AND BOARD

1972 - 1985

(THOUSANDS OF TONS)

	1979	1980	1981	1982F	1983F	1984F	1985F
TOTAL PAPER AND BOARD	69,033	70,716	72,255	73,502	74,338	75,622	76,975
Total Paper	31,179	32,659	33,706	34,696	35,427	36,280	36,944
Newsprint	4,199	4,836	5,457	5,654	5,752	5,955	5,994
Total Printing, Writing & Related	16,057	16,798	17,302	17,827	18,468	19,062	19,647
Groundwood Uncoated	1,541	1,624	1,625	1,742	1,747	1,749	1,749
Coated Papers-Total	4,822	4,984	5,292	5,583	6,03.	6,187	6,300
Coated Groundwood	2,554	2,762	3,047	3,312	3,625	3,686	3,741
Coated Free Sheet	2,268	2,222	2,245	2,271	2,412	2,501	2,559
Uncoated Free Sheet	8,152	8,645	8,828	8,937	9,049	9,439	9,900
Cotton Fiber	134	139	147	152	158	159	160
Thin	393	382	374	373	374	374	374
Solid Bleached Bristols	1,016	1,024	1,035	1,039	1,103	1,154	1,163
Total Packaging & Ind. Conv.	6,053	6,072	5,913	6,042	5,997	6,014	5,949
Unbleached Kraft	4,098	4,110	3,961	3,987	3,932	3,928	3,880
Bleached Packaging & Ind. Conv.	1,105	1,095	1,083	1,139	1,141	1,144	1,124
Excluding Specialty Packaging	N.A.	597	554	608	612	612	600
Other	N.A.	498	529	531	529	532	524
Special Industrial	850	866	870	916	924	941	945
Tissue	4,870	4,954	5,035	5,172	5,210	5,249	5,354
Total Paperboard	33,436	33,709	34,466	35,501	35,728	36,175	36,862
Total Unbl. Kraft Pkg. & Ind. Conv.	15,546	15,967	16,738	17,313	17,361	17,446	17,933
Liner	14,199	14,586	15,372	15,928	16,063	16,157	16,642
Folding	827	852	799	850	781	781	781
Other	520	529	567	535	516	508	510
Total Bleached Pkg. Paperboard	4,268	4,180	4,141	4,184	4,198	4,239	4,245
Folding	2,061	1,954	1,966	2,009	2,023	2,041	2,044
Milk Carton & Food Service	1,877	1,865	1,839	1,849	1,850	1,872	1,874
Liner	137	116	106	103	103	103	103
Other	193	246	230	223	223	223	224
Semichemical Paperboard	4,864	4,946	4,988	5,273	5,249	5,479	5,535
Total Recycled Paperboard	8,757	8,617	8,599	8,731	8,920	9,011	9,149
Linerboard	432	509	463	457	587	614	719
Corrugating Medium	1,392	1,330	1,349	1,423	1,469	1,492	1,496
Container Chip & Filler	287	283	309	334	315	317	317
Folding	2,615	2,593	2,633	2,650	2,652	2,662	2,672
Set-Up	404	349	335	331	331	333	334
Gypsum Wall Board Facing	1,273	1,238	1,251	1,259	1,276	1,292	1,302
Other	2,355	2,313	2,260	2,277	2,291	2,302	2,310
Total Paper and Paperboard	64,615	66,368	68,172	70,197	71,155	72,455	73,806
Total Wet Machine Board	154	163	157	159	161	161	161
Total Construction Paper & Board	4,265	4,184	3,926	3,146	3,022	3,006	3,008
Construction Paper	2,380	2,345	2,111	1,535	1,476	1,460	1,462
Insulating Board	1,885	1,839	1,815	1,611	1,546	1,546	1,546
Total Hard Pressed Board #	2,556##	2,556##	N.A.	N.A.	N.A.	N.A.	N.A.

SOURCE: American Paper Institute, Paper, Paperboard and Wood Pulp Capacity Survey various issues to December 1982.
F - Forecast as reported in December 1982 Capacity Survey
N.A. - Not Available
\# - Hard Pressed Board Not included in Total Paper and Board.
- As reported in 1976 Capacity Survey.

TABLE XII

WOOD PULP CAPACITY

1972 - 1985

(Thousands of Tons)

	1972	1973	1974	1975	1976	1977	1978
TOTAL ALL GRADES (1)	46,760	48,459	48,995	49,502	50,547	51,849	52,714
Dissolving and Special Alpha	1,756	1,754	1,824	1,671	1,571	1,648	1,573
Chemical Paper Grades	35,118	36,631	36,912	37,411	38,292	39,174	39,997
Sulphite, Paper Grades Total	2,353	2,378	2,401	2,420	2,417	2,252	2,095
Bleached	1,949	1,977	2,014	1,993	1,972	1,812	1,675
Unbleached	404	401	387	427	445	440	420
Sulphate and Soda Total	32,765	34,253	34,511	34,991	35,875	36,922	37,903
Bleached Total	12,885	13,733	14,522	14,764	15,042	15,822	18,171
Hardwood	5,674	6,608	7,105	7,201	7,208	7,310	7,729
Softwood	7,211	7,125	7,417	7,563	7,835	8,512	10,442
Semi-Bleached Total	2,178	2,045	1,539	1,469	1,539	1,547	(2)
Hardwood	419	328	33	7	19	12	
Softwood	1,760	1,717	1,506	1,462	1,520	1,536	
Unbleached	17,702	18,475	18,451	18,758	19,293	19,552	19,732
Semichemical Total	3,937	4,171	4,233	4,246	4,402	4,514	4,572
Bleached	204	344	330	334	345	345	339
Unbleached	3,732	3,827	3,903	3,912	4,057	4,169	4,234
Mechanical Total	5,813	5,802	5,930	6,090	6,204	6,442	6,507
For Paper and Board	4,593	4,532	4,572	4,247	4,416	4,502	4,580
Stone Groundwood	-	-	-	3,615	3,540	3,397	3,328
Refiner	-	-	-	500	543	538	533
Thermo-Mechanical	-	-	-	131	333	567	719
For Other Paper and Board	1,220E	1,270E	1,358E	1,843	1,788	1,939	1,926
Stone and Refiner	-	-	-	523	537	525	529
Defibrated and Exploded (1)	1,220E	1,270E	1,358E	1,320E	1,251E	1,414	1,397
Screenings	137	100	97	84	78	71	65
MARKET PULP							
Total All Grades	-	-	5,557	5,412	5,407	5,467	5,746
Dissolving	-	-	1,636	1,488	1,421	1,611	1,573
Chemical Paper Grades	-	-	3,921	3,924	3,986	3,856	4,069
Sulphate	-	-	3,431	3,430	3,411	3,444	3,760
Bleached & Semi-Bleached	-	-	3,240	3,218	3,194	3,280	3,653
Unbleached	-	-	191	212	218	164	107
Sulphite	-	-	471	460	459	301	309
All Other	-	-	19	34	116	111	104
- No Data Available							
(1) Excludes defibrated and exploded wood pulp for hard pressed board as follows:	1,971	2,215	2,300	2,425	2,500	2,500	N.A.

E - Estimate

TABLE XII (Cont.)

WOOD PULP CAPACITY

1972 - 1985

(Thousands of Tons)

	1979	1980	1981	1982F	1983F	1984F	1985F
TOTAL ALL GRADES	53,636	55,214	56,831	57,803	58,064	59,208	60,448
Dissolving and Special Alpha	1,551	1,590	1,598	1,547	1,542	1,542	1,542
Chemical Paper Grades	40,897	41,893	43,143	44,030	44,321	45,039	46,226
Sulphite, Paper Grades Total	2,004	1,909	1,855	1,797	1,765	1,804	1,810
Bleached	1,595	1,512	1,464	1,404	1,372	1,411	1,417
Unbleached	409	397	391	393	393	393	393
Sulphate and Soda Total	38,893	39,983	41,288	42,233	42,556	43,235	44,416
Bleached - Total	18,969	19,695	20,316	20,711	21,119	21,829	22,670
Hardwood	8,072	8,356	8,559	8,688	8,861	9,090	9,533
Softwood	10,897	11,339	11,757	12,023	12,258	12,739	13,137
Semi-Bleached Total	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Hardwood							
Softwood							
Unbleached	19,923	20,288	20,972	21,523	21,437	21,406	21,746
Semichemical Total	4,553	4,601	4,597	4,768	4,641	4,866	4,904
Bleached	336	384	350	351	363	372	372
Unbleached	4,217	4,217	4,247	4,417	4,278	4,494	4,531
Mechanical Total (Groundwood)	6,572	7,069	7,434	7,402	7,506	7,707	7,722
For Paper and Board	4,573	5,070	5,494	5,780	5,904	6,105	6,120
Stone Groundwood	3,255	3,212	3,239	3,271	3,254	3,254	3,248
Refiner	507	486	489	495	535	549	553
Thermo-Mechanical	811	1,371	1,766	2,014	2,115	2,302	2,319
For Other Paper and Board	1,999	1,999	1,940	1,622	1,602	1,602	1,602
Stone and Refiner	594	647	651	621	619	619	619
Defibrated and Exploded (1)	1,406	1,352	1,289	1,001	983	983	983
Screenings	63	61	58	54	54	54	54
MARKET PULP							
Total All Grades	6,334	6,801	6,972	6,951	7,014	7,208	7,648
Dissolving	1,551	1,576	1,579	1,540	1,534	1,534	1,534
Chemical Paper Grades	4,632	5,129	5,375	5,401	5,469	5,663	6,103
Sulphate	4,332	4,761	5,034	5,138	5,212	5,406	5,846
Bleached and Semi-Bleached	4,228	4,589	4,867	4,989	5,062	5,254	5,695
Unbleached	104	172	167	150	151	152	152
Sulphite	350	369	341	263	257	257	257
[illegible]	101	96	17	10	10	10	10

F - Forecast
(2) Included with bleached sulphate wood pulp.

TABLE XIII

IMPORTS

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

1977 - 1982

	1977		1978		1979	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	11,388,320	3,527,212	13,155,023	3,977,336	13,519,117	4,767,233
WOOD PULP, ALL GRADES, TOTAL	3,864,333	1,176,867	4,024,156	1,086,348	4,317,522	1,465,169
Dissolving and Special Alpha	180,270	55,988	188,714	56,173	193,114	67,993
Sulphite, Paper Grades, Total	510,263	150,515	484,455	137,433	592,876	206,243
Bleached	453,553	135,778	417,002	120,810	480,609	171,802
Unbleached	56,710	14,737	67,453	16,623	112,267	34,441
Sulphate, Paper Grades, Total	2,970,264	935,608	3,143,221	853,073	3,330,202	1,142,638
Bleached	2,587,686	826,568	2,813,033	769,668	3,011,959	1,042,501
Semi-Bleached	137,936	43,133	130,335	34,865	150,196	50,448
Unbleached	244,642	65,907	199,853	48,540	168,047	49,689
Soda	928	272	**	**	**	**
Groundwood	154,538	26,897	161,594	28,362	162,509	35,601
Other*	48,070	7,585	46,172	11,306	38,821	12,694
WASTE PAPER	91,680	9,100	17,783	1,294	78,395	11,189
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	7,432,307	2,296,869	9,113,084	2,813,639	9,123,200	3,208,026
PAPER, PAPERBOARD AND OTHER, TOTAL	7,348,464	2,174,577	9,023,644	2,639,761	9,027,147	2,984,897
PAPER, TOTAL#	7,181,471	2,138,744	8,591,591	2,562,381	8,559,716	2,896,107
Newsprint	6,558,967	1,884,121	7,483,720	2,111,649	7,222,701	2,300,450
Total Printing & Writing Paper	539,440	221,779	958,128	385,315	1,178,507	511,724
Groundwood, Uncoated	178,119	61,735	521,603	177,009	804,596	295,996
Coated and Impregnated Paper	111,678	51,193	213,658	109,203	188,846	108,590
Book, Uncoated	228,467	79,448	203,204	93,028	142,674	69,291
Uncoated Free Sheet	236,579	90,072	214,943	78,744	167,894	93,838
Writing Papers	7,255	8,448	10,785	11,791	25,220	24,547
Other Fine Paper	857	2,176	7,307	2,493	14,294	12,057
Thin Paper	12,573	18,455	954	5,648	-	-
Bristols	491	324	618	427	2,247	1,243
Packaging & Industrial Paper, Total	83,027	32,814	137,824	59,051	141,196	74,211
Unbleached Kraft	29,823	8,911	64,623	19,292	66,816	24,551
Other Packaging & Converting	48,853	19,602	67,131	33,282	65,556	39,295
Glassine & Greaseproof	3,348	2,940	4,906	4,645	5,475	5,614
Vegetable Parchment	23	99	66	229	67	226
Special Industrial Paper	978	1,266	1,097	1,603	3,282	4,525
Tissue	37	28	11,919	6,366	17,312	9,722
PAPERBOARD, TOTAL	28,108	6,284	99,845	18,246	82,203	19,111
Test or Containerboard	14,793	2,502	31,860	5,186	25,725	6,021
Semichemical Corrugating	-	-	-	-	33,494	5,889
Other Paperboard	13,315	3,784	67,985	13,060	22,984	7,201
WET MACHINE BOARD##	3,608	1,719	2,614	1,440	2,345	1,341
CONSTRUCTION PAPER & BOARD, TOTAL	135,274	27,830	329,594	57,694	382,883	68,338
Building Paper	92,273	20,497	271,872	47,018	330,147	56,768
Insulating and Other Building Board	43,000	7,332	57,723	10,676	52,736	11,570
PAPER AND PAPERBOARD PRODUCTS, TOTAL#	83,844	122,292*	89,440	173,878	96,053	223,129
PAPER PRODUCTS, TOTAL#	82,054	117,883*	83,043	162,788	90,246	211,682
Printing & Book Paper	12,787	40,283	15,544	56,123	17,425	69,385
Writing & Related Paper#	33,582	32,746	58,406	95,561	49,708	78,857
Special Industrial Paper	10,936	30,719	6,690	8,928	19,657	59,180
Tissue Paper	24,749	14,135	2,403	2,176	3,456	4,260
PAPERBOARD PRODUCTS, TOTAL	1,790	4,408	6,397	11,090	5,807	11,447
Hard Pressed Board (Not in totals)	210,581	29,889	295,729	40,716	262,229	39,607

* Includes Mixtures and Screenings
** Included with Sulphate Pulp Imports
# Coated and Impregnated Printing Papers included in Primary Coated Papers from 1977 on, in earlier years they were in Paper Products
Excludes Imports of Leatherboard from 1977 on, which are included in earlier years.

NOTE: Dollar figures for the value of shipments for which no tonnage figures were given are shown below. They are not included in the subtotals, but are in the Total All grades: ($ 000)

	$44,376	$75,054	$82,849

TABLE XIII (Cont.)

IMPORTS

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

1977 - 1982

	1980		1981		1982	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	12,918,160	5,200,885	12,504,912	5,559,228	11,754,127	5,344,649
WOOD PULP, ALL GRADES, TOTAL	4,050,919	1,683,655	4,086,698	1,764,287	3,655,786	1,493,241
Dissolving and Special Alpha	262,747	110,202	248,565	105,179	186,477	77,853
Sulphite, Paper Grades, Total	426,745	177,953	442,422	197,695	329,442	145,373
Bleached	317,468	138,825	352,262	162,189	280,068	125,800
Unbleached	109,277	39,127	90,160	35,506	49,374	19,573
Sulphate, Paper Grades, Total	3,188,092	1,351,402	3,212,878	1,413,170	2,972,567	1,228,889
Bleached	2,904,205	1,239,720	2,904,531	1,285,810	2,761,314	1,147,304
Semi-Bleached	140,342	58,245	142,727	62,094	78,608	33,156
Unbleached	143,545	53,437	165,620	65,266	132,645	48,429
Soda	**	**	**	**	**	**
Groundwood	148,499	33,849	158,606	37,422	144,336	32,861
Other *	24,836	10,249	24,227	10,821	22,964	8,265
WASTE PAPER	87,064	17,188	79,064	13,405	74,332	9,450
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	8,780,177	3,417,904	8,339,150	3,672,492	8,024,009	3,682,401
PAPER, PAPERBOARD AND OTHER, TOTAL	8,686,416	3,172,997	8,244,942	3,361,887	7,917,418	3,344,205
PAPER, TOTAL#	8,113,036	3,063,633	7,716,284	3,247,846	7,381,252	3,226,307
Newsprint	7,279,349	2,637,857	6,977,118	2,824,777	6,530,676	2,748,652
Total Printing and Writing Paper	739,678	363,266	638,538	347,117	764,095	408,551
Groundwood, Uncoated	487,973	204,873	458,915	219,697	514,882	248,196
Coated and Impregnated Paper	114,927	68,868	39,321	28,765	69,010	46,763
Uncoated Free Sheet	129,380	80,604	127,377	80,352	168,519	99,330
Book, Uncoated	115,528	62,466	114,422	64,874	146,626	80,105
Writing Papers	13,852	18,138	12,955	15,478	25,893	19,225
Thin Paper	6,321	8,182	12,015	17,647	11,293	13,846
Other Fine Paper	-	-	-	-	-	-
Bristols	1,077	739	910	656	391	416
Packaging & Industrial Paper, Total	89,893	60,043	93,588	71,124	79,653	63,863
Unbleached Kraft	33,889	14,293	32,532	14,870	23,078	10,749
Other Packaging & Converting	50,443	36,307	52,724	41,615	47,842	38,290
Glassine & Greaseproof	3,679	5,654	4,797	7,929	5,949	8,909
Vegetable Parchment	62	248	44	232	172	424
Special Industrial Paper	1,819	3,542	3,491	6,478	2,612	5,491
Tissue Paper	4,116	2,467	7,040	4,830	6,828	5,241
PAPERBOARD, TOTAL	97,583	25,576	130,478	34,518	114,808	29,698
Test or Containerboard	43,472	11,340	48,169	12,071	35,983	8,459
Semichemical Corrugating	31,349	6,156	52,476	11,695	47,295	9,679
Other Paperboard	22,762	8,080	29,832	10,751	31,531	11,560
WET MACHINE BOARD##	2,118	1,395	1,684	1,185	1,842	1,239
CONSTRUCTION PAPER & BOARD, TOTAL	473,679	82,393	396,496	78,338	419,515	86,961
Building Paper	435,666	73,238	355,284	65,927	371,186	70,964
Insulating and Other Building Board	38,013	9,155	41,212	12,411	48,330	15,997
PAPER AND PAPERBOARD PRODUCTS, TOTAL#	93,761	244,907	94,208	310,605	106,591	338,196
PAPER PRODUCTS, TOTAL#	84,146	232,412	86,676	294,479	92,059	307,245
Printing & Book Paper	19,377	80,902	21,635	96,180	30,656	124,667
Writing & Related Paper#	55,780	136,334	53,885	177,048	50,275	161,616
Packaging & Special Industrial Paper	5,792	10,368	8,109	16,152	7,540	15,239
Tissue Paper	3,197	4,808	3,047	5,098	3,588	5,723
PAPERBOARD PRODUCTS, TOTAL	9,615	12,494	7,531	16,126	14,532	30,951
Hard Pressed Board (Not in totals)	172,023	32,713	189,466	42,095	152,505	30,908

* Includes Mixtures and Screenings
** Included with Sulphate Pulp Imports
# Coated and Impregnated Printing Papers included in Primary Coated Papers, in earlier years they were in Paper Products.
Excludes imports of Leatherboard, which are included in earlier years.

NOTE: Dollar figures for the value of shipments for which no tonnage figures were given are shown below. They are not included in the sub-totals, but are in the Total, All Grades: ($ 000)

$82,138	$109,042	$159,558

TABLE XIV

EXPORTS

1977 - 1982

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

	1977		1978		1979	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	7,454,619	2,542,305	7,659,629	2,578,949	8,971,709	3,358,211
WOOD PULP ALL GRADES, TOTAL	2,640,052	875,027	2,598,952	817,102	2,934,815	1,103,783
Dissolving and Special Alpha	795,709	316,488	757,486	304,841	764,466	343,076
Sulphite, Paper Grades, Total	200,722	60,051	210,479	63,154	256,880	94,968
Bleached	192,455	57,983	190,380	58,971	218,850	84,696
Unbleached	8,267	2,069	20,099	4,183	37,930	10,272
Sulphate, Paper Grades, Total	1,562,381	478,895	1,568,720	436,320	1,843,213	647,535
Bleached	1,293,954	410,569	1,400,209	394,434	1,632,320	583,516
Semi-Bleached	164,166	49,062	92,969	26,876	106,874	33,807
Unbleached	104,261	19,264	75,542	15,010	104,019	30,212
Mechanical, Semi-Chemical & Other	81,240	19,591	62,267	12,787	70,256	18,204
COTTON PULP & OTHER FIBER	72,584	39,202	88,481	47,987	131,444	74,579
WASTE PAPER	1,512,417	132,798	1,599,449	145,884	2,233,246	256,107
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	3,229,566	1,393,749	3,372,747	1,560,453	3,672,203	1,913,940
PAPER, PAPERBOARD AND OTHER, TOTAL	2,893,712	1,106,227	2,895,733	1,108,083	3,109,859	1,328,320
PAPER, TOTAL	715,607	490,950	542,676	415,574	600,876	507,568
Newsprint	128,674	42,544	82,454	29,947	71,456	32,046
Uncoated Groundwood	54,087	30,597	58,109	37,154	80,392	55,384
Coated Printing and Converting Paper	99,005	76,935	73,592	54,358	73,521	57,743
Coated Groundwood	39,839	26,656	35,758	21,294	38,384	27,690
Coated Book	59,166	50,279	39,834	33,064	35,137	30,054
Uncoated Book Papers	26,466	19,196	84,896[1]	66,185[1]	68,159[1]	64,146[1]
Writing and Related Papers, Total	156,161	146,688				
Writing Paper	80,345	51,974	[1]	[1]	[1]	[1]
Cigarette (See also Products)	1,783	2,346	26,544[2]	29,953[2]	32,357[2]	36,741[2]
Other Writing and Related Papers	74,033	92,368	12,216[3]	13,366[3]	10,937[3]	12,685[3]
Bristols			10,740	7,784	9,242	6,671
Unbleached Kraft Packaging & Industrial Conv. Papers, Total	115,233	44,751	45,442	17,440	63,695	27,079
Unbleached Kraft exc. Shipping Sack	48,311	18,837	25,030	10,725	35,705	16,651
Shipping Sack Paper	39,295	11,735	20,412	6,714	27,990	10,428
Kraft Paper & Paprd. Uncoated, n.e.c.	27,627	14,179	-	-	-	-
Glassine, Greaseproof & Veg. Parchment	5,383	4,342	7,865	6,550	7,702	7,761
Other Pkg. & Industrial Conv. Papers	20,708	13,710	35,613	22,915	32,385	22,935
Special Industrial Paper, Total	94,053	101,558	84,075	112,108	123,125	160,441
Special Industrial	75,445	77,521	74,019	94,306	110,557	135,864
Absorbent Papers	18,608	24,036	10,056	17,802	12,568	24,577
Tissue Paper, Total	15,837	10,629	21,130	17,814	27,905	23,934
Sanitary Tissue	13,354	7,975	N.A.	N.A.	N.A.	N.A.
Other Tissue	2,483	2,653	N.A.	N.A.	N.A.	N.A.
PAPERBOARD TOTAL	2,119,784	592,264	2,281,653	662,216	2,446,972	789,902
Kraft Linerboard (a)	1,428,038	317,575	1,539,510	344,110	1,644,901	434,515
Other Kraft Paperboard	N.A.	N.A.	65,833	22,300	100,301	33,739
Corrugating Medium	48,501	7,714	32,051(c)	5,724	17,358	5,208
Bleached Pkg. Paperboard, Total	374,823	160,090	440,724(d)	204,423	508,601	238,813
Special Food Board	62,383	33,628	86,950	36,995	59,248	26,355
Special Food Board Impregnated or Coated	239,136	103,357	353,774(d)	167,428	416,649	198,879(d)
Kraft Paperboard, n.e.c.(b)	53,304	23,106	N.A.	N.A.	32,704	13,579
Recycled Furnish Paperboard, Total	268,422	106,885	203,535	85,611	175,811	77,626
Boxboard & Related Boards	107,372	44,742	109,102	49,542	70,652	32,260
Special Paperboard	113,581	41,918	60,794	26,629	67,768	33,918
Containerboard	47,469	20,224	33,639	9,440	37,391	11,448
WET MACHINE BOARD	8,051	4,855	7,554	4,805	7,371	5,146
CONSTRUCTION PAPER & BOARD, TOTAL	50,270	18,158	63,850	25,485	54,642	25,704
Building Paper	16,328	6,355	37,166	13,220	34,020	14,420
Insulating Board	33,942	11,807	26,684	12,265	20,623	11,284
PAPER AND PAPERBOARD PRODUCTS, TOTAL	335,854	287,522	477,014	452,373	562,343	585,620
PAPER PRODUCTS,TOTAL	169,198	199,485	274,884	326,728	332,407	427,080
Cig. Paper Cut to Size, Books, etc.	19,526	32,576	21,919	37,416	25,143	45,947
PAPERBOARD PRODUCTS, TOTAL	165,659	88,037	202,130	125,645	229,936	158,540
Hard Pressed Board (Not in Totals)	59,203	21,329	25,571	8,541	32,030	11,223

NOTE: Grade structure revised in 1978. 1/ Uncoated free sheet 2/ Total thin papers excluding cigarette
3/ Cotton fiber papers only

NOTE: Dollar figures for the value of shipments for which no tonnage figures were given are shown below. They are not included in the sub-totals, but are in the Total, All Grades: ($ 000)

	$101,530	$7,523	$9,803

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TABLE XIV (Cont.)

EXPORTS

1977 - 1982

WOOD PULP, PAPER, PAPERBOARD AND PRODUCTS

	1980		1981		1982	
	Tons	$ 000	Tons	$ 000	Tons	$ 000
TOTAL ALL GRADES	11,832,242	4,849,934	10,663,148	4,917,049	9,872,299	4,324,128
WOOD PULP ALL GRADES, TOTAL	3,805,549	1,552,099	3,677,635	1,661,311	3,394,648	1,414,558
Dissolving and Special Alpha	768,975	393,384	783,848	419,324	631,324	327,617
Sulphite, Paper Grades, Total	348,097	154,199	284,316	122,236	216,783	93,051
Bleached	322,212	146,084	271,952	118,465	209,078	91,115
Unbleached	25,885	8,115	12,364	3,771	7,705	1,936
Sulphate, Paper Grades, Total	2,607,736	1,078,233	2,585,476	1,111,599	2,519,413	985,496
Bleached	2,402,619	1,010,204	2,417,882	1,051,557	2,357,896	934,401
Semi-Bleached	92,121	27,994	66,443	24,956	62,399	21,470
Unbleached	112,996	40,035	101,151	35,086	99,118	29,625
Mechanical, Semi-Chemical & Other	80,741	26,283	23,995	8,151	27,128	8,934
COTTON PULP & OTHER FIBER	148,485	92,607	131,910	85,195	104,560	72,327
WASTE PAPER	2,664,272	322,195	2,212,549	268,526	2,127,050	238,934
PAPER, PAPERBOARD AND PRODUCTS, TOTAL	5,213,936	2,772,733	4,641,054	2,890,782	4,246,041	2,589,319
PAPER, PAPERBOARD AND OTHER, TOTAL	4,581,878	2,052,406	4,033,988	2,079,937	3,670,413	1,754,352
PAPER, TOTAL	907,447	737,363	1,008,409	846,775	840,445	679,069
Newsprint	174,869	86,403	270,460	139,702	307,657	142,964
Uncoated Groundwood	100,951	71,716	119,673	91,966	55,916	48,430
Coated Printing & Converting Paper	92,351	75,160	88,597	78,328	81,373	65,485
Coated Groundwood	44,503	35,783	46,398	38,263	34,665	25,964
Coated Book	47,848	39,377	42,199	40,065	46,708	39,521
Uncoated Free Sheet	88,313	94,826	116,752	119,592	70,599	75,451
Thin (Exc. Cigarette)	33,835	42,036	42,717	46,573	27,688	34,699
Cotton Fiber	16,608	16,387	9,221	13,118	6,637	10,917
Bristols	8,801	5,975	6,357	5,031	4,404	4,152
Unbleached Kraft Packaging & Industrial Conv. Papers, Total	142,825	61,346	110,801	50,980	110,075	48,460
Unbleached Kraft exc. Shipping Sack	77,154	36,172	69,328	34,107	49,377	22,534
Shipping Sack Paper	65,671	25,174	41,473	16,873	39,685	15,469
Glassine, Greaseproof & Veg. Parchment	8,490	9,751	8,818	10,475	5,447	7,246
Other Pkg. & Ind. Conv. Papers	37,211	27,920	46,922	34,523	55,886	36,247
Special Industrial Paper, Total	142,254	192,324	136,346	208,644	112,466	190,060
Special Industrial	129,566	165,754	124,128	179,793	102,491	166,669
Absorbent Papers	12,688	26,570	12,218	28,851	9,975	23,391
Tissue Paper, Total	60,939	53,521	51,745	47,842	23,310	25,415
Sanitary Tissue	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Other Tissue	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
PAPERBOARD TOTAL	3,608,752	1,283,130	2,945,935	1,195,528	2,771,046	1,044,908
Kraft Linerboard (a)	2,527,245	790,070	1,973,487	660,285	1,886,193	542,304
Other Kraft Paperboard (Unbleached)	163,825	60,633	148,855	63,341	139,219	60,780
Corrugating Medium	62,884	17,264	65,821	19,588	61,422	18,116
Bleached Packaging Paperboard, Total	606,044	314,751	584,250	367,530	525,734	349,614
Special Food Board	20,630	10,932	21,922	13,322	38,130	22,683
Special Food Board Impregnated or Coated	559,895	290,655	531,904	335,240	465,585	311,909
Kraft Paperboard, n.e.c. (b)	25,519	13,164	30,424	18,968	22,019	15,022
Recycled Furnish Paperboard, Total	248,754	100,412	173,522	84,784	158,478	74,094
Boxboard & Related Boards	101,186	42,470	69,939	32,313	76,728	31,877
Special Paperboard	63,210	35,413	53,760	36,219	32,418	26,295
Containerboard	84,358	22,528	49,823	16,252	49,332	15,922
WET MACHINE BOARD	8,017	5,258	10,812	7,039	11,089	5,939
CONSTRUCTION PAPER & BOARD, TOTAL	57,662	26,655	68,832	39,595	47,833	24,437
Building Paper	31,436	13,299	22,690	12,364	19,748	10,544
Insulating Board	26,226	13,356	46,142	18,231	28,085	13,893
PAPER AND PAPERBOARD PRODUCTS, TOTAL	632,058	720,328	607,066	810,845	575,628	834,966
PAPER PRODUCTS, TOTAL	378,581	523,511	362,337	580,602	315,805	591,163
Cig. Paper Cut to Size, Books, etc.	25,141	49,308	20,120	47,335	17,717	46,349
PAPERBOARD PRODUCTS, TOTAL	253,477	196,817	244,729	230,243	259,823	243,804
Hard Pressed Board (Not in Totals)	28,900	10,705	61,046	19,111	46,793	13,921

(a) - Contains Bleached Kraft Linerboard reported as follows:(Tons) 1972 - 150,484; 1973 - 69,929; 1974 - 133,682; 1975 - 149,483; 1976 - 131,524; 1977 - 130,545; 1978 - 194,422; 1979 - 179,995; 1980 - 233,924; 1981 - 151,979; 1982 - 67,595
(b) - Contains some Bristols and Other Paperboard. (c) Excludes Recycled Corrugating Medium: 9,503 tons.
(d) - Includes Bleached Folding Boxboard - Not Reported Separately.
* Not comparable to prior years
NOTE: Dollar figures for the value of shipment for which no tonnage figures were given are shown below. They are not included in the sub-totals, but are in the Total, All Grades: ($ 000) $10,300 $11,235 $8,990

TABLE XV

VALUE OF SHIPMENTS OF PRODUCT CLASSES

1977 - 1981

(Millions of Dollars)

SIC CODE		1977	1978	1979	1980	1981
26	PAPER AND ALLIED PRODUCTS (1)	$50,356.5	$55,065.6	$62,662.7	$70,014.7	$77,294.4
2611-	Pulp	2,466.4	2,499.5	3,077.2	3,911.9	3,971.0
26111	Special Alpha and Dissolving Woodpulp	570.5	550.7	621.9	818.3	715.1
26112	Other Pulp, Including Byproducts, Exc. Tall Oil	1,894.8	1,948.4	2,450.6	3,087.4	3,249.8
26110	Pulp, N.S.K.	1.1	0.4	4.7	6.2	6.0
2621-	Papermill Products, except Building Paper	12,438.2	13,535.7	15,784.3	17,710.7	19,936.3
26211	Newsprint	989.3	1,039.8	1,226.1	1,683.9	2,063.0
26212	Groundwood Paper, Uncoated	539.0	593.9	722.7	741.4	842.3
26213	Clay Coated Printing and Converting Paper	2,260.9	2,572.1	2,824.9	3,160.3	3,581.4
26214	Uncoated Free Sheet	3,352.7	3,761.5	4,665.8	5,442.9	5,765.7
26215	Bleached Bristols (Exc. Cotton Fiber)	474.3	504.4	502.1	494.0	602.8
26216	Cotton Fiber Paper and Thin Paper (77)	496.1	536.4	645.3	676.6	736.2
26217	Unbleached Kraft Packaging & Ind. Converting Paper	1,098.7	1,137.7	1,243.9	1,438.6	1,444.4
26218	Packaging and Ind. Conv. Paper, Exc. Unbl. Kraft	560.6	626.8	759.8	719.5	793.3
26219	Special Industrial Paper	550.7	522.6	575.3	544.1	639.5
26210	Tissue Paper, and Papermill Products, N.S.K.	2,115.9	2,240.6	2,618.3	2,809.3	3,467.6
2631-	Paperboard Mill Products	6,434.7	6,988.8	8,026.9	9,062.8	10,064.9
26311	Unbleached Kraft Packaging & Ind. Conv. Paperboard	2,697.2	2,939.2	3,542.1	4,069.7	4,575.9
26312	Bleached Packaging & Ind. Converting Paperboard	1,364.6	1,530.1	1,566.3	1,780.9	2,031.3
26313	Semichemical Paperboard	748.9	784.3	967.1	1,069.1	1,158.7
26314	Recycled Paperboard	1,562.7	1,668.2	1,863.3	2,053.7	2,173.0
26318	Wet Machine Board	59.3	63.6	70.4	64.2	76.8
26310	Paperboard Mill Products, N.S.K.	2.0	(S)	17.4	25.3	49.3
2641-	Coated and Glazed Paper	3,043.2	3,320.2	3,832.1	4,302.4	4,803.4
26411	Printing Paper Coated at Estab. not making Paper	172.0	217.7	233.6	233.4	269.3
26412	Oiled, Waxed and Wax-Laminated Paper	256.3	257.6	255.5	350.4	368.7
26413	Gummed Products	187.6	199.2	229.6	259.7	237.7
26414	Pressure Sensitive Tape and Labels (Unprinted)	1,177.7	1,305.1	1,502.7	1,649.5	1,857.3
26417	Laminated, Coated Rolls, Sheets, for Pkg. Uses	697.1	831.6	927.2	1,060.5	1,231.9
26418	Other Coated Processed Paper, Except Pkg. & Waxed	421.1	425.7	574.6	632.1	689.7
26410	Coated and Glazed, N.S.K.	131.3	(S)	108.8	116.8	141.4
26420	Envelopes(Excluding Stationary Envelopes)	980.6	1,140.4	1,288.8	1,460.7	1,610.3
2643-	Bags, Except Textile Bags	3,304.1	3,819.1	4,200.4	4,621.0	5,037.6
26431	Grocers' & Variety Bags and Shopping Bags	801.6	912.9	985.2	1,129.3	1,209.5
26432	Specialty Bags and Liners	1,615.7	1,874.7	2,390.9	2,689.8	2,972.7
26433	Shipping Sacks and Multiwall Bags	672.6	714.0	781.6	760.2	805.8
26430	Bags, Except Textile Bags, N.S.K.	214.3	(S)	(S)	(S)	(S)
2645-	Die-Cut Paper and Board	1,034.3	1,156.4	1,213.9	1,394.5	1,514.8
26451	Office Supplies and Misc. Products	484.9	517.3	671.5	745.3	826.5
26452	Pasted, Lined, Laminated, or Coated Paperboard	438.4	474.8	465.6	(529.9)	576.0
26450	Die-Cut Paper and Board, N.S.K.	111.0	163.4	(76.8)	119.3	112.3
2646-	Pressed and Molded Pulp Goods	239.6	221.6	216.7	209.2	246.2
26461	Bituminous Fiber Pipe	(D)	(D)	(D)	(D)	(D)
26462	Other Pressed and Molded Pulp Goods	225.9	209.5	207.8	(200.5)	239.9
26460	Pressed and Molded Pulp Goods, N.S.K.	(D)	(D)	(D)	(D)	(D)
2647-	Sanitary Paper Products	4,562.6	5,105.5	6,163.9	7,043.4	7,752.3
26471	Sanitary Napkins and Tampons	588.7	581.0	660.4	775.8	919.2
26472	Sanitary Tissue Health Products	3,948.3	4,475.2	5,420.3	6,283.8	6,793.0
26470	Sanitary Paper Products, N.S.K.	25.6	(S)	83.2	-	40.1
2648-	Stationery Products	630.5	717.7	751.5	840.8	896.6
26481	Stationery	141.2	171.1	190.0	235.4	268.4
26482	Tablets and Related Products	425.5	463.7	497.7	535.6	569.4
26480	Stationery Products, N.S.K.	63.8	(S)	63.8	69.8	58.9
2649-	Converted Paper Products N.E.C.	1,748.8	1,808.7	2,103.9	2,255.1	2,412.1
26492	Wrapping Products (Gift Wrap, etc.)	251.5	267.4	344.1	360.0	394.8
26493	Wallcoverings	306.5	287.8	325.5	361.1	410.2
26495	Other Converted Paper and Board Products	948.1	1,032.9	1,199.4	1,233.8	1,270.4
26490	Converted Paper Products, N.E.C, N.S.K.	242.7	(S)	234.9	(300.1)	336.7
26510	Bending Paperboard Packaging and Pkg. Components	2,393.4	2,667.4	2,797.7	3,152.9	3,415.0
26520	Setup Paperboard Boxes	377.7	417.0	408.1	447.1	485.0
26530	Corrugated and Solid Fiber Boxes, Inc. Pallets	7,182.8	7,893.9	8,686.9	9,363.5	10,495.9
2654-	Sanitary Food Containers	1,964.9	2,065.6	2,251.7	2,392.5	2,627.2
26541	Milk and Other Beverage Cartons (Paperboard)	480.0	465.9	489.5	502.7	512.6
26542	Cups and Liquid-Tight Containers (Paperboard)	594.1	632.5	724.9	779.3	828.1
26543	Other Sanitary Food Containers, Boards, and Trays	842.2	917.2	1,034.8	1,108.0	1,299.1
26540	Sanitary Food Containers, (Paperboard) N.S.K.	48.6	(S)	(S)	(S)	*
2655-	Fiber Cans, Drums, and Similar Products	1,040.4	1,143.7	1,295.1	1,328.4	1,525.4
26551	Paperboard Fiber Drums	223.8	234.3	299.8	282.6	282.6
26552	Fiber Cans, Tubes, and Similar Fiber Products	782.6	875.8	956.3	1,004.5	1,188.1
26550	Fiber Cans, Drums and Similar Products, N.S.K.	34.0	(S)	38.9	41.3	50.8
2661-	Building Paper and Board	514.3	564.4	563.6	517.8	500.4
26611	Insulating Board	222.2	238.8	231.7	211.3	208.7
26612	Construction Paper	291.8	325.3	313.2	281.6	253.5
26610	Building Paper and Board, N.S.K.	0.3	0.3	18.7	24.9	38.2

SOURCE: 1981 Survey of Manufactures - Bureau of Census

* - Withheld - NSK calculation was a negative number

N.S.K. - Not Specified by Kind

N.E.C. - Not Elsewhere Classified

(1) Sum of reported data

(D) Data witheld to avoid disclosure

(S) Not up to statistical standard

SECTION II

REGIONAL DATA

Table XVI presents regional data for 1980 on the production of wood pulp, paper and paperboard, and consumption of pulpwood as published by the Bureau of Census. Also included are the 1981 data on shipments of paper and paperboard, production of wood pulp and consumption of pulpwood. Census shifted from the collection of production data to the collection of shipments data in its 1981 annual report. In some instances, such as kraft paperboard, the 1981 shipments data were significantly below the production totals published in that same report. The production data were based on the monthly data collected in 1981.

Table XVII presents regional data on the capacity to produce paper, paperboard and wood pulp by major grade for the years 1970, 1978-1981 and 1985. The data were compiled from the annual surveys of pulp, paper and paperboard capacity conducted by API. The figures for 1981 and 1985 were reported in the 1982 Survey published in December 1982. The data are shown for the seven Census Divisions east of the Rockies and the total of the Mountain States, Pacific States and Alaska combined.

The data shown for 1970 and 1978 represent the capacity as of the end of the year. The data for the other years reflect the average capacity during the year. This table replaces the table shown in previous reports that presented total paper and paperboard and wood pulp capacity on a state basis. These data are no longer available.

The 1982 edition of this report included a table on page 43 that showed data on various aspects of the paper industry for the year 1978 as published by the Bureau of Census. The Bureau of Census has, at least for the time being, stopped compiling this type of state data. Readers who wish a copy of the 1978 data may obtain it on request from the Economics Department of the American Paper Institute.

TABLE XVI

STATE DATA - 1980

(000 Short Tons)

Geographic Areas	PULPWOOD CONSUMPTION (Cords)*	WOOD PULP PRODUCTION (R)	PAPER AND PAPERBOARD PRODUCTION				
			Total All Grades	Paper	Paperboard	Wet Machine Board	Construction Paper & Board
UNITED STATES, TOTAL	79,703,387	52,958,465	65,834,278	30,163,713	31,143,186	137,649	4,389,730
Northeast	7,317,963	4,618,336	10,631,642	7,754,258	2,092,077	92,168	693,179
New England	4,352,086	2,796,366	5,171,432	4,243,238	789,324	16,044	122,826
Maine	3,749,200	2,330,506	3,281,771	3,230,038	(D)	-	(D)
New Hampshire	(D)	(D)	511.411	290,151	(D)	(D)	-
Vermont	(D)	(D)	(D)	(D)	(D)	-	(D)
Massachusetts	-	-	743,572	508,153	229,522	(D)	(D)
Rhode Island	(D)	(D)	(D)	-	-	-	(D)
Connecticut	-	(D)	358,178	(D)	284,853	(D)	(D)
Middle Atlantic	2,965,877	1,821,970	5,460,210	3,511,020	1,302,753	76,124	570,313
New York	334,466S	(D)	2,121,279	1,750,077	283,498	-	87,704
New Jersey	(D)	(D)	975,101	352,350	407,565	(D)	(D)
Pennsylvania	1,299,941H	1,212,067	2,363,830	1,408,593	611,690	(D)	(D)
North Central	5,714,547	4,307,339	11,655,086	6,526,079	4,086,178	(D)	(D)
East North Central	4,617,407	3,299,340	10,000,058	5,683,005	(D)	(D)	561,681
Ohio	17,696S	461,489	2,009,248	(D)	1,069,676	-	(D)
Indiana	(D) H	(D)	580,936	(D)	531,428	-	(D)
Illinois	74,179H	(D)	847,397	(D)	410,652	(D)	(D)
Michigan	952,475H	958,092	2,403,827	1,114,460	(D)	-	(D)
Wisconsin	2,703,874	1,749,560	4,158,650	3,490,981	(D)	-	(D)
West North Central	1,097,140	1,007,999	1,656,028	843,074	(D)	-	(D)
Minnesota	682,394H	846,979	1,283,135	(D)	(D)	-	(D)
Iowa	(D) S	(D)	147,312	-	(D)	-	(D)
Missouri	(D)	(D)	156,424	(D)	(D)	-	(D)
Kansas	-	-	69,157	-	(D)	-	(D)
South	51,206,326	35,108,955	34,110,372	11,645,780	20,391,454	(D)	(D)
South Atlantic	24,959,917	16,875,635	16,200,321	4,533,968	10,986,756	(D)	(D)
Delaware	-	-	(D)	(D)	(D)	-	-
Maryland	(D)	(D)	529,627	(D)	114,950	-	(D)
Virginia	1,595,427H	2,134,933	2,792,219	(D)	1,764,420	(D)	(D)
West Virginia	-	-	(D)	-	(D)	-	-
North Carolina	3,715,211	(D)	2,286,601	(D)	1,068,084	-	(D)
South Carolina	3,499,614	2,474,917	2,438,262	(D)	1,927,664	-	(D)
Georgia	8,617,681	5,644,026	5,375,756	1,212,766	4,010,488	-	152,502
Florida	4,835,671H	3,577,682	2,687,710	(D)	2,027,398	-	(D)
East South Central	12,741,478	8,993,581	8,657,155	3,191,421	4,556,954	(D)	(D)
Kentucky	(D)	(D)	(D)	(D)	(D)	-	-
Tennessee	485,583H	(D)	2,191,594	(D)	1,005,515	(D)	185,549
Alabama	6,781,672	4,583,003	4,312,219	1,806,199	(D)	-	(D)
Mississippi	2,010,368S	2,269,397	(D)	(D)	(D)	-	(D)
West South Central	13,504,931	9,239,739	9,252,896	3,920,91	4,847,744	-	484,761
Arkansas	1,153,499H	1,752,179	2,216,866	(D)	(D)	-	(D)
Louisiana	5,862,442	3,866,697	3,767,349	1,513,111	(D)	-	(D)
Oklahoma	(D)	(D)	866,905	-	(D)	-	(D)
Texas	3,198,542S	(D)	2,401,776	(D)	959,907	-	(D)
West	15,464,551	8,923,835	9,436,178	4,237,596	4,573,477	-	625,105
Mountain	1,909,075	1,142,124	1,220,076	(D)	(D)	-	(D)
Montana	(D) S	(D)	(D)	-	(D)	-	(D)
Idaho	(D) S	(D)	(D)	(D)	(D)	-	-
Colorado	-	-	(D)	(D)	(D)	-	(D)
New Mexico	-	-	-	-	-	-	-
Arizona	(D) S	(D)	(D)	(D)	(D)	-	-
Utah	-	-	-	-	-	-	-
Pacific	2,631,444	7,781,711	8,216,102	(D)	(D)	-	620,284
Washington	1,331,959	3,585,066	2,894,859	2,000,243	(D)	-	(D)
Oregon	4,186,212S	2,979,968	3,323,310	1,458,409	1,538,048	-	326,853
California	(D)	(D)	1,997,933	(D)	1,191,827	-	(D)
Alaska	(D) S	(D)	-	-	-	-	-

SOURCE: Bureau of the Census - Current Industrial Reports, Pulp, Paper and Board 1981, Series: M26A (90)-13 U.S. Department of Commerce, Washington, DC

* - 128 Cu. Ft. roughwood basis

\- - Represents zero

S - Softwood pulpwood only H - Hardwood pulpwood only

(D) - Withheld by Commerce Department to avoid disclosure

(R) - Revised

BEST AVAILABLE COPY

TABLE XVI (Cont.)

STATE DATA - 1981

(000 Short Tons)

Geographic Areas	PULPWOOD CONSUMPTION (Cords)*	WOOD PULP PRODUCTION	PAPER AND PAPERBOARD SHIPMENTS				
			Total All Grades	Paper	Paperboard	Wet Machine Board	Construction Paper & Board
UNITED STATES, TOTAL	79,725,129	53,413,447	61,833,853	30,240,867	30,009,805	112,139	1,471,042
Northeast	7,321,548	4,621,925	9,778,154	7,549,340	1,806,130	(D)	(D)
New England	4,375,713	2,772,289	5,076,347	4,182,409	803,487	(D)	(D)
Maine	3,828,988	2,349,635	3,362,198	3,282,740	(D)	-	(D)
New Hampshire	(D)	(D)	(D)	252,373	(D)	(D)	-
Massachusetts	(D) H	-	727,426	426,337	301,089	-	-
Vermont	(D)	(D)	(D)	(D)	(D)	-	-
Rhode Island	(D) S	(D)	(D)	-	-	-	(D)
Connecticut	-	-	(D)	(D)	(D)	(D)	-
Middle Atlantic	2,945,835	1,849,636	4,701,443	3,366,931	1,002,643	(D)	(D)
New York	398,271H	(D)	1,923,869	1,626,903	(D)	(D)	(D)
New Jersey	(D)	(D)	618,704	322,356	(D)	(D)	(D)
Pennsylvania	1,018,516H	1,214,415	2,158,870	1,417,672	603,900	(D)	(D)
North Central	5,890,109	4,028,844	11,185,600	6,806,413	4,110,223	(D)	(D)
East North Central	4,772,688	3,121,472	9,835,255	5,990,126	(D)	(D)	
Ohio	499,425H	429,695	(D)	(D)	1,080,756	-	(D)
Indiana	(D) H	(D)	(D)	(D)	552,985	-	-
Illinois	(D)	(D)	(D)	(D)	396,966	(D)	(D)
Michigan	1,034,772H	966,940	(D)	1,177,362	(D)	-	-
Wisconsin	2,756,526	1,607,787	4,118,530	3,581,480	(D)	-	-
West North Central	1,117,421	907,372	1,350,345	816,287	(D)	-	(D)
Minnesota	721,847S	771,101	(D)	816,287	(D)	-	(D)
Iowa	(D)	(D)	(D)	-	(D)	-	(D)
Missouri	(D)	(D)	(D)	-	(D)	-	(D)
Kansas	-	-	(D)	-	(D)	-	(D)
South	51,653,773	36,157,388	32,226,208	11,589,968	19,907,873	(D)	(D)
South Atlantic	25,107,404	17,330,623	15,470,046	4,631,213	10,533,742	(D)	(D)
Delaware	-	-	(D)	(D)	(D)	-	-
Maryland	(D)	(D)	453,338	(D)	(D)	-	(D)
Virginia	1,815,790H	2,598,215	2,823,158	(D)	1,804,848	(D)	(D)
West Virginia	-	-	(D)	-	(D)	-	-
North Carolina	3,677,059	(D)	2,245,013	(D)	(D)	-	-
South Carolina	3,553,522	2,441,972	2,337,532	(D)	(D)	-	-
Georgia	8,407,443	5,727,703	5,213,106	1,015,871	(D)	-	(D)
Florida	4,810,849S	3,529,236	2,318,881	(D)	(D)	-	-
East South Central	13,321,557	9,197,490	8,091,243	3,229,820	4,677,945	(D)	(D)
Kentucky	(D)	(D)	(D)	(D)	(D)	-	-
Tennessee	467,026H	(D)	1,965,676	(D)	963,738	(D)	-
Alabama	7,507,620	4,972,659	4,513,500	1,864,051	(D)	-	(D)
Mississippi	1,966,958S	2,180,540	(D)	(D)	(D)	-	(D)
West South Central	13,224,812	9,629,275	8,666,919	3,728,935	4,696,186	-	239,798
Arkansas	833,289H	1,939,652	2,134,119	(D)	(D)	-	(D)
Louisiana	5,780,210	3,886,631	3,574,294	1,473,077	(D)	-	(D)
Oklahoma	(D)	(D)	849,229	-	(D)	-	(D)
Texas	3,085,331S	(D)	2,109,277	(D)	888,830	-	(D)
West	14,859,699	8,605,290	8,643,891	4,295,146	4,185,579	-	(D)
Mountain	2,279,355	1,225,769	1,353,301	(D)	(D)	-	-
Montana	(D) S	(D)	(D)	-	(D)	-	-
Idaho	(D) S	(D)	(D)	(D)	(D)	-	-
Colorado	-	-	(D)	-	(D)	-	-
New Mexico	-	-	-	-	-	-	-
Arizona	(D) S	(D)	(D)	(D)	(D)	-	-
Utah	-	-	-	-	-	-	-
Pacific	12,580,344	7,379,521	7,290,590	(D)	(D)	-	(D)
Washington	5,820,133	3,494,097	2,928,484	(D)	(D)	-	-
Oregon	4,032,478S	2,786,690	2,973,406	1,486,363	(D)	-	(D)
California	(D)	(D)	1,388,700	(D)	847,909	-	(D)
Alaska	(D) S	(D)	-	-	-	-	-

SOURCE: Bureau of the Census - Current Industrial Report, Pulp, Paper and Board 1981 Series M26A (81)-1 U.S. Department of Commerce, Washington, D.C.

* - 128 Cu. Ft. roughwood basis

\- - Represents zero

S - Softwood pulpwood only, excludes hardwood pulpwood

H - hardwood pulpwood only, excludes softwood pulpwood

(D) - Withheld by Commerce Department to avoid disclosure

TABLE XVII

CAPACITY OF PAPER, PAPERBOARD AND WOOD PULP BY CENSUS DIVISION

1970 - 1985

ANNUAL CAPACITY - 000 SHORT TONS

	Total Paper & Paper-board	PAPER					PAPER BOARD			
		Total	Newsprint	Printing Writing & Related	Packaging & Ind. Converting	Tissue	Total	Unbleached Kraft Total	Unbleached Kraft Liner-board	Solid Bleached
New England										
1970*	4,748	3,660	417	2,419	367	457	895	-	-	34
1978*	5,541	4,496	404	3,089	506	496	894	-	-	33
1979	5,664	4,586	341	3,247	489	510	891	-	-	35
1980	5,712	4,644	323	3,322	459	541	891	-	-	N.A.
1981	5,740	4,791	N.A.	3,500	441	542	832	-	-	N.A.
1985	6,180	5,279	N.A.	3,938	495	520	824	-	-	N.A.
Middle Atlantic										
1970*	6,354	3,411	149	1,926	300	1,036	2,087	-	-	-
1978*	6,443	3,814	191	2,219	259	1,146	1,948	-	-	-
1979	6,540	3,869	192	2,257	239	1,181	1,941	-	-	-
1980	6,452	3,890	N.A.	2,312	224	1,155	1,912	-	-	-
1981	6,316	3,920	N.A.	2,356	225	1,135	1,769	-	-	-
1985	6,369	3,975	N.A.	2,462	228	1,076	1,795	-	-	-
East North Central										
1970*	10,057	5,070	113	3,197	628	1,132	4,021	-	-	124
1978*	10,999	5,933	136	3,832	720	1,244	4,208	-	-	-
1979	11,066	6,004	138	3,952	677	1,237	4,254	-	-	-
1980	11,253	6,202	140	4,056	768	1,237	4,238	-	-	N.A.
1981	11,481	6,386	N.A.	4,236	758	1,251	4,357	-	-	N.A.
1985	12,024	6,997	N.A.	4,661	757	1,437	4,583	-	-	N.A.
West North Central										
1970*	1,587	594	-	571	23	-	438	-	-	-
1978*	1,823	815	-	800	15	-	445	-	-	-
1979	1,842	832	-	830	1	-	441	-	-	-
1980	1,856	850	-	834	17	-	440	-	-	-
1981	1,919	846	-	828	18	-	450	-	-	-
1985	1,858	978	-	960	18	-	453	-	-	-
South Atlantic										
1970*	13,623	3,520	339	1,275	1,723	182	9,514	6,194	5,770	1,382
1978*	16,126	4,354	377	1,859	1,770	347	11,064	7,003	6,488	1,822
1979	16,397	4,407	458	1,900	1,703	346	11,229	7,174	6,667	1,858
1980	16,945	4,746	676	1,985	1,699	386	11,409	7,469	6,945	1,788
1981	17,297	4,858	762	2,017	1,722	397	11,620	7,712	7,234	1,688
1985	18,270	5,729	975	2,424	1,877	453	11,883	7,790	7,379	1,705
East South Central										
1970*	7,137	2,792	833	747	739	473	3,439	2,232	2,168	626
1978*	7,946	3,163	892	1,212	554	504	4,387	2,734	2,468	703
1979	8,054	3,134	918	1,184	523	508	4,531	2,815	2,519	716
1980	8,515	3,408	1,061	1,335	506	505	4,744	3,008	2,679	717
1981	8,922	3,529	1,112	1,399	502	516	5,041	3,296	2,934	723
1985	10,085	4,158	1,143	1,964	512	538	5,588	3,588	3,204	737
West South Central										
1970*	7,106	3,188	721	1,130	1,247	88	3,172	1,704	1,442	871
1978*	9,921	4,132	1,022	1,457	1,422	231	5,167	2,965	2,539	1,194
1979	9,998	4,185	1,054	1,382	1,449	300	5,178	2,977	2,476	1,175
1980	10,267	4,437	1,159	1,504	1,445	329	5,194	2,964	2,434	1,197
1981	10,375	4,517	1,342	1,494	1,311	370	5,254	2,948	2,470	1,253
1985	11,273	4,607	1,335	1,683	1,154	436	6,269	3,709	3,259	1,330
Mountain and Pacific										
1970*	8,340	3,571	888	954	913	817	4,053	2,177	2,136	435
1978*	9,399	4,122	1,060	1,273	1,003	786	4,927	2,549	2,510	487
1979	9,473	4,161	1,098	1,304	972	787	4,970	2,580	2,538	483
1980	9,716	4,483	1,279	1,451	953	800	4,881	2,526	2,479	441
1981	10,305	4,820	1,587	1,472	937	824	5,143	2,782	2,735	439
1985	10,916	5,222	1,865	1,556	907	894	5,468	2,846	2,799	439

* Total capacity at end of year.
N.A. Not Available

TABLE XVII (Cont.)

CAPACITY OF PAPER, PAPERBOARD AND WOOD PULP BY CENSUS DIVISION

1970 - 1985

ANNUAL CAPACITY - 000 SHORT TONS

	PAPERBOARD (Cont.)		Con-struction Paper & Board	WOOD PULP							
							Sulphate				
	Semi-Chemical	Recycled		Total **	Dis-solving	Sulphite	Bl. & Semi-Bl.	Un-bleached (1)	Semi-chemical	Mechan-ical	For Con-struction (2)
New England											
1970*	179	682	192	2,797	-	484	1,061	48	140	953	100
1978*	197	665	151	3,257	-	251	1,689	83	154	983	96
1979	195	660	187	3,252	-	252	1,714	78	148	928	132
1980	N.A.	663	176	3,253	-	N.A.	1,757	70	N.A.	908	130
1981	N.A.	667	118	3,243	-	N.A.	1,816	N.A.	N.A.	952	105
1985	N.A.	694	77	3,367	-	N.A.	1,900	N.A.	N.A.	1,018	79
Middle Atlantic											
1970*	-	2,087	856	1,357	-	143	312	-	325	247	244
1978*	-	1,948	680	1,444	-	242	464	-	345	212	181
1979	-	1,941	729	1,452	-	243	471	-	353	218	167
1980	-	1,912	651	1,465	-	245	486	-	364	221	150
1981	-	1,769	626	1,504	-	N.A.	501	-	385	221	146
1985	-	1,795	599	1,549	-	N.A.	515	-	410	221	146
East North Central											
1970*	1,128	2,769	966	3,209	-	567	601	165	987	462	427
1978*	1,248	2,960	857	3,379	-	530	795	209	1,208	281	356
1979	1,290	2,964	808	3,431	-	532	805	207	1,232	290	364
1980	1,475	2,762	813	3,532	-	535	834	216	1,284	319	344
1981	1,545	2,810	738	3,549	-	536	817	N.A.	1,305	362	309
1985	1,659	2,921	445	3,572	-	508	830	N.A.	1,364	424	224
West North Central											
1970*	176	262	555	959	-	44	206	24	265	266	153
1978*	183	263	562	979	-	-	249	17	221	198	294
1979	132	308	570	944	-	-	258	18	170	194	304
1980	63	377	566	899	-	-	265	17	100	195	322
1981	N.A.	386	523	905	-	-	N.A.	N.A.	N.A.	197	331
1985	N.A.	390	426	916	-	-	N.A.	N.A.	N.A.	260	311
South Atlantic											
1970*	1,103	834	589	14,598	600	2	4,222	8,163	913	385	313
1978*	1,192	1,047	708	16,550	565	-	5,621	8,666	933	362	402
1979	1,145	1,053	760	16,766	607	-	5,707	8,779	875	358	441
1980	1,116	1,037	790	17,364	658	-	5,842	9,014	879	509	462
1981	1,158	1,062	779	17,814	656	-	6,064	9,159	893	593	448
1985	1,195	1,193	659	19,168	643	-	7,065	9,312	900	811	436
East South Central											
1970*	333	248	906	7,586	285	-	2,481	2,820	429	844	634
1978*	629	321	396	8,603	243	-	3,649	3,178	575	746	212
1979	651	349	389	8,679	215	-	3,714	3,232	577	738	203
1980	672	347	363	9,251	N.A.	-	3,956	3,435	590	852	189
1981	669	353	352	9,653	N.A.	-	4,046	3,695	582	892	189
1985	902	360	339	10,990	N.A.	-	4,989	3,924	735	954	189
West South Central											
1970*	352	245	747	7,069	-	-	2,969	2,829	259	694	319
1978*	691	316	622	10,037	-	-	3,871	4,453	595	871	247
1979	708	319	634	9,824	-	-	3,795	4,304	603	886	237
1980	708	326	635	10,059	-	-	3,896	4,326	620	979	238
1981	717	336	603	10,356	-	-	4,005	4,393	651	1,070	237
1985	882	348	397	11,017	-	-	4,227	4,724	770	1,159	137
Mountain and Pacific											
1970*	485	957	716	8,896	883	1,163	2,147	2,950	366	787	597
1978*	740	1,152	349	9,273	754	1,033	2,422	3,387	591	934	151
1979	743	1,164	341	9,288	729	977	2,506	3,369	594	961	151
1980	720	1,193	352	9,391	703	885	2,658	3,273	620	1,086	163
1981	706	1,215	342	9,807	693	824	2,801	3,507	600	1,208	175
1985	734	1,448	227	9,868	699	802	2,857	3,564	594	1,273	79

(1) Includes screenings.
(2) Excludes defibrated/exploded pulp capacity of mills that produce hard pressed board, 1978-1985.
* Total capacity at end of year.
** Includes soda pulp for 1970 as follows (000 Tons): New England - 10, Middle Atlantic - 86, East South Central - 93, Mountain and Pacific - 4. Other years included in sulphate pulp.
N.A. Not Available

SECTION III

INPUTS AND RELATED DATA

This section presents data on the inputs of labor and materials required to manufacture paper and paperboard. It also presents data on capital expenditures by the paper industry on two bases: expenditures on a company basis, that is for those companies whose major sales are paper and allied products, and on an establishment basis, that is, capital expenditures at all establishments making paper and allied products, regardless of corporate ownership.

Table XVIII presents data on fuel and energy used in wood pulp, paper and paperboard mills for 1972 and 1978-1982. These data were collected by API as part of its Energy Monitoring Systems. They represent revisions published in 1983, based on new information received by API.

Chart 2, on page 47 shows the changing trends in the various types of fuels and energy used by mills during the 1972-1982 period. It highlights the sharp decline in the use of oil since 1979 and the steady increase in the use of bark and wood residues. The decline in fuel use in 1982 reflects the impact of the recession, which brought total production of paper and paperboard 4.5% below its 1981 level. Note however, that use of bark and wood residues increased from 1981 to 1982, as did use of coal.

API's Energy Monitoring System also reported that the use of fossil fuel per ton of paper, paperboard and dried pulp production declined by 35.5% from 1972 to 1982. Converting plants, which accounted for 4.4% of the energy consumed by those companies that reported such data to API in 1982, showed a 36.3% improvement in energy use per unit of production between 1972 and 1982.

Table XIX presents data on recyclable paper collection and use in paper and paperboard manufacturing for the period 1970-82. Other uses include recyclable paper used in molded pulp, in insulation and other such uses. Import and export data are reported by the Bureau of Census.

This table shows that recyclable paper use relative to paper and paperboard production in 1970-1981 ranged from a low of 22.5% in 1972 to a high of 23.8% in 1979. Recyclable paper consumption at paper and paperboard mills declined 2.6% from 1981 to 1982, compared to the 5.1% decline in paper and paperboard production. In this table the production data include construction paper and board. The recyclable paper utilization rate in 1982 rose to 23.9%, from the 23.3% reported in 1981. This brought the utilization rate to a high for the years shown in this table.

Total recyclable paper recovered, which includes recyclable paper for uses other than at paper and board mills and for exports, declined by 2.7% while new supply of paper and paperboard, including the construction grades, declined by 4.7%. Thus, the recovery rate rose to 26.5%, from the 25.9% reported in 1981. This was the second highest recovery rate shown on the table; the highest was 26.7% in 1980, a year of record-high recyclable paper exports.

Table XX presents data on recyclable paper recovery by type of recyclable paper for the years 1977 through 1982. The data for 1977 through 1981 were collected by the API as part of its Capacity Survey report. The 1982 data are based on information collected by the Paper Recycling Division of the API for that year. This Division collects data on molded pulp and

insulation uses of recyclable paper, along with the data on use of recyclable paper at paper and board mills.

Tables XXIA and XXIB present data on U.S. production of total wood pulp and market wood pulp for the years 1970 through 1982. The wood pulp production data presented here are consistent with the capacity data shown in Table XIII, inasmuch as they exclude the production of defibrated and exploded pulp used in the manufacture of hard pressed board. The data on market pulp production, which account for about 12% of the total, may be considered as much an output of the paper and board industry as an input; about half the paper grade chemical pulp is exported, the other half is sold in the domestic market. The special alpha and dissolving grades are sold almost entirely outside the paper industry for such uses as rayon, acetate and cellophane.

The data for 1970-1981 were drawn from Census reports. The table also shows a 1981 total wood pulp production as reported by the American Paper Institute, based on the API's monthly and annual survey's of production by its members. API data for wood pulp production were also used in 1982 and are consistent with the API data for 1981.

The major differences between API and Census data for 1981 appear to be in bleached sulphate and refined groundwood production. Both API and Census indicate that the production of wood pulp in 1981 was at a record-high. The decline shown in wood pulp production in 1982 is consistent with the trend in production of paper and paperboard.

Table XXII presents data on the consumption of wood pulp, by grade, at paper and board mills for the years 1971-1982, together with consumption of recyclable paper and other fibrous raw materials. This table also presents data on pulpwood consumption at wood pulp mills and consumption of wood pulp outside the paper and paperboard industry.

The data on wood pulp consumption in the 1971-1981 period are drawn from reports by the Bureau of the Census. The data on defibrated and exploded wood pulp were adjusted to exclude consumption at hard pressed board mills. The 1982 data are API estimates based on API's data on wood pulp shipments to the domestic market and Census data on wood pulp imports.

Data on labor input and productivity are shown in Tables XXIII and XXIV. Table XXIII presents data on employment and employee earnings in the paper and allied products industry, by major product groupings, for the period 1964 to 1982. These data are taken from reports of the Bureau of Labor Statistics, Department of Labor.

Table XXIV presents data on output per manhour and related data for the period 1947-1982. The 1947-1981 data are taken directly from the Bureau of Labor Statistics report. The 1982 data are estimated by the American Paper Institute.

Table XXV presents data on employee costs in the paper and allied products industry, including wages and salaries as well as supplements to wages and salaries, as presented in the Department of Commerce figures on National Income.

Table XXVI presents data on capital expenditures in the

paper and allied products industry. The first column shows capital expenditures by paper and allied products companies - that is, those companies whose major products are in the paper and allied products industry. The data refer to total company capital expenditures and include capital expenditures in subsidiary companies and divisions not in the paper industry. They exclude the expenditures made by the pulp and paper subsidiary companies of corporations whose main business fall under a different industry classification. These figures are published quarterly by the Bureau of Economic Analysis and represent the most current data available on capital expenditures.

The other data in this table represent total capital expenditures at the mills and plants of the industry, regardless of company ownership. They include all mills and plants producing pulp, paper, paperboard and converted products and are normally the most precise measures of capital expenditures for the paper and allied products industry. The data are published at the four-digit SIC level in the Census and Survey of Manufactures. The latest data are for 1981.

The Bureau of Census informed us that they used a new sampling system to collect the establishment data for the 1979-1981 Surveys of Manufacturers. Prior to 1979, Census drew their sample from this list of companies in the industry, and reported expenditures of all the establishments in the chosen companies. For 1979 and 1981, Census changed its sampling procedure and drew their sample from their list of its individual mills and plants. This seems to have increased the difference between expenditures based upon company data as reported by the Bureau of Economic Analysis and those reported by Census on the basis of the establishment data. In the 1975-1978 period, for example, expenditures reported by paper and allied products establishments averaged $3.2 billion per year, compared to the $3.4 billion per year reported by companies whose main business was the manufacture of paper and allied products. In 1979-1981 the expenditures at establishments averaged about $4.7 billion per year, compared to $6.4 billion a year reported by companies in the paper and allied products classification. A major reason for the divergences appears to be the fact that the new system does not capture expenditures at greenfield mills while they are under construction. The company reports include such data.

The discrepancy in the two series widened significantly in 1981, when the company total declined by 1.2% from its 1980 level, while the establishments total fell by 9.2%. The 1982 data will be based on the Census of Manufacturers, which represent a survey of all the mills and plants in the industry. We understand that Census Bureau will try to make adjustments to reflect expenditures at new mills in its 1983 Survey of Manufacturers.

Table XXVIIA presents the latest information on capital expenditures by the pulp and paper industry for environmental protection as reported by the National Council of the Paper Industry for Air and Stream Improvement. Table XXVIIB shows data on expenditures by paper and allied products companies for research and development, as reported by the National Science Foundation.

The primary raw material of pulp, paper and paperboard production is the tree. Table XXVIII presents data taken from the latest edition of the Forest Service Division of the U.S. Department of Agriculture's Forest Statistics of the United States. This report presents the Forest Service's detailed analysis of conditions in the commercial forests of the United States, together with analyses and forecasts of trends in the major markets for the forest products industry, including the pulp and paper industry.

These reports by the Forest Service have been made periodically for over 100 years and have made contributions to public and private policies concerning forest management.

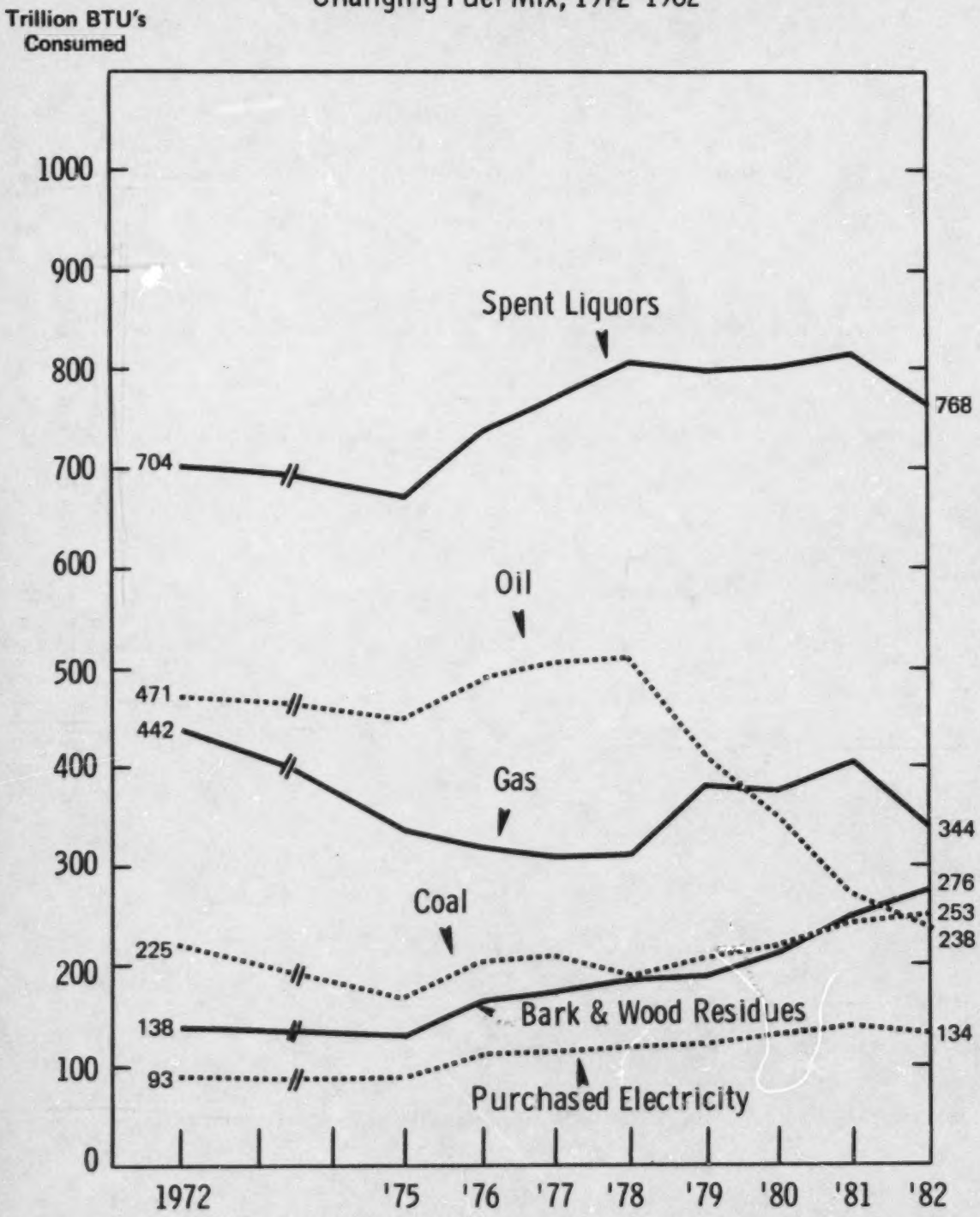
The table presented here describes ownership as of January 1, 1977. In that year, forest industry companies owned 13.9% of the commercial forest land of the U.S. The table also shows that as of that date there was considerable potential for increased commercial removals of softwoods in every section of the U.S. except the Pacific Coast States and that all regions could expand their removal of hardwoods long before the rate of removals plus mortality reached the rate of total growth.

ENERGY & MATERIALS DEPARTMENT
AMERICAN PAPER INSTITUTE
260 Madison Avenue, New York, N.Y. 10016

Chart 2

PULP, PAPER & PAPERBOARD INDUSTRY

Changing Fuel Mix, 1972-1982



MARCH 1983

TABLE XVIII

UNITED STATES

PULP, PAPER AND PAPERBOARD INDUSTRY

ESTIMATED FUEL AND ENERGY USE

1972, 1978 - 1982

		1972*R			1978*			1979*		
SOURCE	UNITS	Estimated Use	Billion BTU'S	% of Total+	Estimated Use	Billion BTU'S	% of Total+	Estimated Use	Billion BTU'S	% of Total+
Purchased Electricity	MMKWH	27,304.3	92,831.7	4.4	34,400.7	116,962.2	5.4	37,830.2	128,625.6	5.9
Purchased Steam	MM lbs	20,225.6	23,314.4	1.1	15,472.7	18,260.7	0.8	14,260.6	16,496.0	0.8
Coal	M tons	9,032.2	224,606.5	10.6	8,012.5	195,077.9	9.0	8,832.7	217,723.7	9.9
Residual Fuel Oil	M 42 gal.BBL	71,325.5	448,632.2	21.3	78,184.5	491,133.1	22.6	64,740.8	406,840.0	18.5
Distillate Fuel Oil	M 42 gal.BBL	3,725.5	22,178.6	1.1	2,435.8	14,413.6	0.7	1,858.4	11,040.9	0.5
Liquid Propane Gas	M gal.	29,151.8	2,682.7	0.1	11,942.1	1,114.1	Negl.	17,210.9	1,586.1	0.1
Natural Gas	MMCF	433,702.2	442,150.7	20.9	305,912.9	313,540.8	14.4	377,107.1	387,124.6	17.6
Other Purchased Energy			1,646.4	0.1		2,044.3	0.1		5,621.5	0.3
Energy Sold			(-13,227.7)			(-22,419.6)			(-21,164.0)	
Total Purchased Fossil Fuel and Energy			1,244,815.5	59.6		1,130,127.1	53.0		1,153,894.4	53.6
Hogged Fuel (50% Moisture Content)	M Tons	5,231.9	42,432.8	2.0	11,395.2	93,257.1	4.3	12,339.9	100,603.7	4.6
Bark (50% Moisture Content)	M Tons	10,429.3	95,168.2	4.5	10,903.8	96,339.3	4.4	10,830.3	96,356.0	4.4
Spent Liquor (Solids)	M Tons	55,607.5	703,861.8	33.3	65,645.3	814,431.0	37.5	65,037.5	803,625.7	36.6
Self-Generated Hydroelectric Power	MMKWH	2,670.5	9,081.8	0.4	2,644.6	8,991.2	0.4	2,736.8	9,304.8	0.4
Other Self-Generated Energy			3,000.8	0.2		8,617.8	0.4		8,608.4	0.4
Total Self-Generated & Waste Fuels			853,545.4	40.4		1,021,636.4	47.0		1,018,498.6	46.4
Total Energy			2,098,360.9	100.0		2,151,763.5	100.0		2,172,393.0	100.0

* Based on a sample of 90.2% of total dried pulp, paper and paperboard for 1979, 85.8% for 1978,and 89.4% for 1972.
\+ Determined by using "Total Energy" + "Energy Sold" as a denominator.
Negl. Negligible
R Revised

SOURCE: Energy and Materials Department; Pulp, Materials and Technology Group; American Paper Institute.

TABLE XVIII (Cont.)

UNITED STATES

PULP, PAPER AND PAPERBOARD INDUSTRY

ESTIMATED FUEL AND ENERGY USE

1972, 1978 - 1982

SOURCE	UNITS	1980* Estimated Use	1980* Billion BTU'S	1980* % of Total+	1981*R Estimated Use	1981*R Billion BTU'S	1981*R % of Total+	1982* Estimated Use	1982* Billion BTU'S	1982* % of Total+
Purchased Electricity	MMKWH	39,701.0	134,982.3	6.2	41,163.3	139,998.9	6.5	39,346.3	133,880.7	6.5
Purchased Steam	MM lbs.	12,882.1	14,909.4	0.7	12,996.9	15,077.9	0.7	12,771.9	14,641.3	0.7
Coal	M tons	9,210.2	226,898.9	10.4	10,075.1	246,380.4	11.4	10,385.0	252,952.4	12.3
Residual Fuel Oil	M 42 gal BBL	55,368.7	348,309.6	16.0	41,890.6	263,598.4	12.2	36,847.6	232,288.2	11.3
Distillate Fuel Oil	M 42 gal BBL	1,357.7	8,103.9	0.4	1,320.2	7,886.2	0.4	1,032.6	6,155.5	0.3
Liquid Propane Gas	M gal	21,193.0	1,955.7	0.1	22,255.8	2,050.1	0.1	27,586.1	2,536.5	0.1
Natural Gas	MMCF	375,215.8	384,450.1	17.7	394,445.4	403,184.1	18.6	335,752.0	344,470.8	16.9
Other Purchased Energy			5,421.7	0.2		2,826.1	0.1		3,225.8	0.2
Energy Sold			(-21,740.4)			(-21,710.4)			(-18,912.3)	
Total Purchased Fossil Fuel and Energy			1,103,291.2	51.7		1,059,291.7	50.0		971,238.9	48.3
Hogged Fuel (50% Moisture Content)	M tons	14,296.0	118,656.3	5.4	17,816.9	149,136.8	6.9	19,777.0	165,298.9	8.0
Bark (50% Moisture Content)	M tons	11,874.1	103,488.5	4.8	12,032.8	104,210.9	4.8	12,767.9	110,474.7	5.4
Spent Liquor (Solids)	M tons	65,615.0	811,305.6	37.3	66,982.9	811,699.4	37.5	63,482.6	767,546.1	37.4
Self-Generated Hydroelectric Power	MMKWH	2,449.9	8,328.9	0.4	2,772.7	9,428.9	0.4	2,772.0	9,431.4	0.5
Other Self-Generated Energy			8,389.0	0.4		8,084.9	0.4		8,601.5	0.4
Total Self-Generated & Waste Fuels			1,050,168.3	48.3		1,082,560.9	50.0		1,061,352.6	51.7
Total Energy			2,153,459.5	100.0		2,141,852.6	100.0		2,032,591.5	100.0

* Based on a sample of 92.8% of total dried pulp, paper and paperboard for 1982, 92.6% for 1981, and 91.3% for 1980.
\+ Determined by using "Total Energy" + "Energy Sold" as a denominator.
R Revised

SOURCE: Energy and Materials Department; Pulp, Materials and Technology Group; American Paper Institute.

TABLE XIX

UNITED STATES

RECYCLABLE PAPER UTILIZATION AND RECOVERY

1970 - 1982

(Thousands of Tons)

YEAR	Paper and Board Production	New Supply Paper and Board	Recyclable Paper Consumption at Paper & Board Mills	Recyclable Paper Utilization Rate	Recyclable Paper for Molded Pulp, Insulation and Other Uses	Exports	Imports	Total Recyclable Paper Recovered	Recyclable Paper Recovery Rate
1970	51,710	56,008	11,803	22.8%	418	408	(67)	12,562	22.4%
1971	53,203	57,492	12,106	22.8%	442	419	(68)	12,899	22.4%
1972	57,477	62,082	12,925	22.5%	447	415	(88)	13,699	22.1%
1973	59,936	65,039	14,094	23.5%	499	683	(87)	15,189	23.4%
1974	59,210	63,477	13,982	23.6%	489	1,307	(89)	15,689	24.7%
1975	51,126	54,261	11,748	23.0%	535	861	(72)	13,072	24.1%
1976	58,486	62,171	13,622	23.3%	630	1,273	(106)	15,419	24.8%
1977	60,207	64,408	14,058	23.3%	870	1,512	(92)	16,348	25.4%
1978	62,221	67,961	14,760	23.7%	502	1,599	(70)	16,791	24.7%
1979	64,546	69,997	15,361	23.8%	509	2,233	(78)	18,025	25.8%
1980R	63,705	67,271	14,922	23.4%	473	2,664	(87)	17,972	26.7%
1981R	64,412	68,110	15,037	23.3%	488	2,213	(79)	17,659	25.9%
1982P	61,149	64,927	14,641	23.9%	480	2,127	(74)	17,174	26.5%

Paper and Board Production includes all grades of paper, paperboard, wet machine board, construction paper and board, excluding hard pressed board.

New Supply equals production plus imports less exports, excluding hard pressed board. Imports and exports include paper and paperboard converted products.

Utilization Rate is the ratio of recyclable paper consumption to total production of paper and board.

Recovery Rate is the ratio of recyclable paper collected to new supply of paper and paperboard.

Total Recyclable Paper Recovered is the sum of Recyclable Paper Consumption at Paper and Board Mills, other uses and exports less imports.

P - Preliminary

R - Revised

TABLE XX

UNITED STATES

RECYCLABLE PAPER RECOVERY

1977-1982

(Thousands of Tons)

GRADE AND YEAR	Consumption at Paper and Board Mills	Consumption for Molded Pulp, Insulation and Other Uses	Exports	Sub Total	Imports	Total
Used Corrugated						
1977	6,205	-	592	6,797	(30)	6,767
1978	6,721	-	577	7,298	(7)	7,291
1979	6,967	-	960	7,927	(11)	7,916
1980	6,866	-	1,209	8,075	(13)	8,062
1981R	6,910	-	991	7,901	(12)	7,889
1982P	6,667	-	887	7,554	(11)	7,543
Old Newspapers						
1977	2,057	870	316	3,243	(42)	3,201
1978	2,000	502	366	2,868	(6)	2,862
1979	2,321	509	336	3,166	(4)	3,162
1980	2,391	473	425	3,289	(10)	3,279
1981R	2,372	488	425	3,285	(9)	3,276
1982P	2,559	480	444	3,483	(12)	3,471
Mixed Papers						
1977	2,773	-	341	3,114	-	3,114
1978	2,729	-	471	3,200	(52)	3,148
1979	2,648	-	648	3,296	(57)	3,239
1980	2,268	-	649	2,917	(55)	2,862
1981R	2,233	-	474	2,707	(50)	2,657
1982P	2,010	-	492	2,502	(45)	2,457
Pulp Substitutes						
1977	2,079	-	263	2,342	(20)	2,322
1978	2,242	-	92	2,334	(2)	2,332
1979	2,308	-	154	2,462	(4)	2,458
1980	2,254	-	205	2,459	(9)	2,450
1981R	2,307	-	192	2,499	(8)	2,491
1982P	2,200	-	164	2,364	(1)	2,363
High Grade Deinking						
1977	944	-	-	944	-	944
1978	1,068	-	93	1,161	(3)	1,158
1979	1,117	-	135	1,252	(2)	1,250
1980	1,142	-	176	1,318	(*)	1,318
1981R	1,216	-	130	1,346	(*)	1,346
1982P	1,205	-	140	1,345	(6)	1,339
Total All Grades						
1977	14,058	870	1,512	16,440	(92)	16,348
1978	14,760	502	1,599	16,861	(70)	16,791
1979	15,361	509	2,233	16,103	(78)	18,025
1980	14,922	472	2,664	18,058	(87)	17,971
1981R	15,037	488	2,213	17,738	(79)	17,659
1982P	14,641	480	2,127	17,248	(74)	17,174

* Less than 500 tons R - Revised P = Preliminary

TABLE XXIA

UNITED STATES PRODUCTION OF WOOD PULP

1970 - 1982

(000 Short Tons)

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	API DATA 1981	API DATA 1982
WOOD PULP, TOTAL+	42,421	42,595	45,237	46,659	46,724	41,445	45,695	47,222	48,027	49,277	51,543	52,167	52,933	50,157
Special Alpha and Dissolving Grades	1,705	1,674	1,656	1,637	1,723	1,583	1,443	1,436	1,405	1,447	1,417	1,356	1,353	1,092
Bleached Sulphite	1,931	1,809	1,827	1,810	1,804	1,594	1,559)	2,012	1,643	1,814	1,910	1,795	(1,403	1,242
Unbleached Sulphite	413	354	345	374	405	357	435)						(399	345
Bleached Sulphate	11,348	11,685	12,460	13,055	13,705	12,448	13,696	14,384	15,213	15,581)	18,247	18,863	20,070	19,721
Semi-Bl. Sulphate	1,906	1,557	1,574	1,826	1,672	1,396	1,298	1,244	1,198	1,182)				
Unbleached Sulphate	16,217	16,309	17,792	18,165	17,635	15,369	17,784	18,436	19,041	19,576	19,735	19,806	19,574	18,170
Soda	218	208	184	188	200	148E	95E	87E	86E	*	*	*	*	*
Groundwood, Stone and Refiner	4,404	4,462	4,639	4,670	4,711	4,351	4,649	4,268	4,010	3,809	4,154	4,270	3,736)	5,097
Groundwood, Thermo-mechanical	**	**	**	**	**	**	**	583	645	811	1,147	1,433	1,584)	
Semichemical	3,297	3,473	3,786	3,864	3,758	3,201	3,576	3,542	3,549	3,889	3,938	3,754	3,924	3,700
Defibrated or Exploded ***	850	940	850	950	980	890	1,010	1,120	1,122	1,070	900	800	800	700
Screenings, Damaged, etc.	130	125	122	122	131	108E	110E	110E	110E	98E	95E	90E	90E	90E

SOURCE: 1970 - 1981 - U.S. Bureau of the Census
1981 - 1982 - Pulp, Materials and Technology Group - API

* Soda pulp included with unbleached sulphate wood pulp
** Included with stone and refiner groundwood
*** Estimated to exclude wood pulp for hard pressed board
\+ These totals are comparable to the capacity data published on Table XIII, Wood Pulp Capacity. Excludes defibrated and exploded wood pulp for hard pressed board.
E - Estimated

TABLE XXIB

UNITED STATES PRODUCTION OF MARKET WOOD PULP

1970 - 1982

(000 Short Tons)

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
MARKET WOOD PULP, TOTAL	5,446	4,634	5,025	4,925	5,139	4,358	4,864	4,803	5,122	5,678	6,464	6,210	5,732
Special Alpha and Dissolving Grades	1,714	1,680	1,674	1,494	1,611	1,232	1,370	1,462	1,403	1,497	1,506	1,352	1,089
Paper Grade Chemical Total	3,694	2,944	3,303	3,409	3,492	3,079	3,428	3,263	3,638	4,117	4,889	4,857	4,643
Bleached Sulphite	529	405	468	465	392	314	292	219	231	248	348	263	205
Unbleached Sulphite	60	11	13	21	5	8	24	13	19	28	32	3	0
Bleached and Semi-Bleached Sulphate	2,741	2,325	2,705	2,813	2,905	2,670	2,999	2,895	3,291	3,729	4,377	4,447	4,315
Unbleached Sulphate	364	203	117	110	190	87	113	136	97	112	132	144	123
Paper Grades - Other	38	10	48	22	36	47	66	78	81	63	69	2	1

SOURCE: Pulp, Materials and Technology Group - API

TABLE XXII

UNITED STATES CONSUMPTION OF PULPWOOD, WOOD PULP AND OTHER FIBROUS MATERIALS

IN PAPER AND PAPERBOARD MILLS

1971 - 1982

(000 Short Tons)

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980R	1981R	1982P
WOOD PULP, TOTAL*	42,787	45,928	47,267	46,736	40,863	45,894	46,824	48,223	50,058	51,181	51,573	50,795
Special Alpha and Dissolving Grades	71	77	73	58	42	36	44	42	42	41	40	40
Bleached Sulphite	2,135	2,161	2,009	2,136	1,768	1,985	1,884	1,587	1,726	1,664	1,548	1,380
Unbleached Sulphite	463	458	526	547	442	501	481	407	468	464	464	395
Bleached Sulphate	12,588	13,595	14,341	14,608	12,919	14,447	15,228	16,043	16,685)	18,941[1]/	18,817[1]/	20,370[1]/
Semi-bleached Sulphate	1,711	1,797	1,812	1,626	1,453	1,517	1,378	1,795	1,769)			
Unbleached Sulphate	16,495	17,971	18,437	17,825	15,430	17,527	18,149	18,694	19,307)	19,827	20,125	18,680
Soda	235	213	221	231	166	121	121	118	127)			
Groundwood	4,590	4,807	4,935	5,004	4,546	5,085	4,497	4,281	4,396	4,277	4,384)	5,580
Thermomechanical	-	-	-	-	-	-	368	441	559	1,078	1,452)	
Semichemical	3,481	3,754	3,785	3,628	3,120	3,546	3,521	3,609	3,860	3,948	3,868	3,650
Defibrated or Exploded E	886	962	993	916	849	993	1,019	1,075	1,015	955	775	600
Screenings, Damaged, etc.	133	135	137	157	125	135	134	131	104	106	100	100
OTHER FIBROUS MATERIALS, TOTAL	12,981	13,817	14,977	14,820	12,373	14,364	14,884	15,584	16,088	15,122	15,618	15,060
Recyclable Paper	12,106	12,925	14,094	13,982	11,748	13,622	14,058	14,760	15,361	14,922	15,037	14,560
All Other, including Straw, Rags, etc.	875	892	883	838	625	742	826	854	727	602	581	500E
PULPWOOD, TOTAL**	67,501	71,840	73,576	74,459	65,421	73,209	73,970	77,290	79,566	80,522	79,747	79,039
Softwood	50,932	53,751	54,868	54,634	48,932	55,789	55,509	57,096	58,654	58,860	57,972	57,032
Hardwood	16,568	18,089	18,708	19,825	16,489	18,420	18,461	20,194	20,912	21,662	21,775	22,007
Receipts of Residues	21,765	27,346	25,751R	29,949R	28,694	28,165	29,653	30,380	30,015	29,402	30,590	31,152
CONSUMPTION OF WOOD PULP IN OTHER THAN PAPER AND PAPERBOARD MILLS												
TOTAL WOOD PULP	1,116	1,118	1,047	1,152	785	886	879	884	909	825	788	N.A.
Special Alpha and Dis. Grades	933	929	869	937	600	705	702	676	701	629	609	N.A.
Other Wood Pulps	183	189	178	216	185	181	177	208	208	196	179	N.A.

SOURCE: Consumption in paper and board mills of wood pulp - 1971-1981 - Bureau of the Census, Industry Division
1982 - American Paper Institute
Consumption of recyclable paper - American Paper Institute
Consumption of other fibrous materials - Bureau of the Census, Industry Division
Consumption of pulpwood - American Pulpwood Association

* Includes figures for Alaska; excludes wood pulp for hard pressed board.

** Includes slabs, chips and mill waste. All pulpwood data in thousands of cords.

P - Preliminary R - Revised E - Estimated by American Paper Institute

Note: Details may not add to totals due to rounding of figures to nearest thousand.
Recyclable paper consumption - Bureau of the Census data (000 tons)
1970 - 10,594; 1971 - 11,000; 1972 - 11,703; 1973 - 12,374; 1974 - 12,098; 1975 - 10,367;
1976 - 11,874; 1977 - 12,103; 1978 - 12,586; 1979 - 13,012; 1980 - 12,583; 1981 - 13,377

1/ Soda included in bleached and semibleached sulphate wood pulp.

N.A. - Not Available

TABLE XXIII

WAGE RATES AND EMPLOYMENT

PAPER AND ALLIED PRODUCTS INDUSTRY

1964 - 1982

YEAR	Average Hourly Earnings (Dollars)	Average Weekly Earnings (Dollars)	Average Weekly Hours	Employees	
				Total	Production Workers
				(Thousands)	
PAPER AND ALLIED PRODUCTS - SIC 26					
1964	2.56	109.57	42.8	625.5	488.8
1965	2.65	114.22	43.1	639.1	497.7
1966	2.75	119.35	43.4	666.9	518.2
1967	2.87	122.84	42.8	679.1	526.3
1968	3.05	130.85	42.9	691.2	536.2
1969	3.24	139.32	43.0	711.1	550.6
1970	3.44	144.14	41.9	705.5	543.2
1971	3.67	154.51	42.1	681.9	521.8
1972	3.95	169.06	42.9	688.9	531.6
1973	4.20	180.18	42.9	704.6	543.1
1974	4.53	191.59	42.2	706.1	544.3
1975	5.01	208.42	41.6	642.0	479.7
1976	5.47	232.48	42.5	675.5	508.3
1977	5.96	255.68	42.9	691.6	518.2
1978	6.52	279.71	42.9	698.7	524.7
1979	7.13	303.74	42.6	706.8	535.6
1980	7.84	330.85	42.2	692.8	522.7
1981	8.60	365.50	42.5	688.5	518.4
1982	9.32	389.58	41.8	662.0	493.4
PAPER AND PULP* - SIC 261,262,266					
1964	2.77	121.88	44.0	213.1	169.9
1965	2.88	128.16	44.5	211.9	168.2
1966	3.02	135.30	44.8	215.1	169.9
1967	3.16	139.99	44.3	217.1	170.5
1968	3.35	149.08	44.5	217.7	170.2
1969	3.58	160.38	44.8	222.7	173.6
1970	3.80	166.06	43.7	218.8	168.6
1971	4.05	177.80	43.9	208.8	160.6
1972	4.37	194.03	44.4	206.5	160.6
1973	4.66	208.77	44.8	208.7	162.7
1974	5.00	222.50	44.5	210.7	164.0
1975	5.54	240.44	43.4	196.8	150.3
1976	6.12	272.95	44.6	203.9	156.4
1977	6.75	302.40	44.8	205.4	157.3
1978	7.44	334.80	45.0	200.1	151.1
1979	8.26	372.53	45.1	205.9	154.7
1980	9.15	407.18	44.5	203.3	152.2
1981	10.06	449.68	44.7	203.8	153.2
1982	10.87	479.37	44.1	197.3	148.1
PAPER MILLS EXCEPT BUILDING PAPER - SIC 262					
1972	4.36	194.46	44.6	179.2	138.6
1973	4.64	209.26	45.1	180.8	140.1
1974	4.97	222.66	44.8	182.7	141.1
1975	5.52	240.67	43.6	170.9	129.5
1976	6.10	273.89	44.9	176.4	134.2
1977	6.70	300.83	44.9	175.7	133.6
1978	7.43	336.58	45.3	170.3	127.6
1979	8.24	374.92	45.5	176.8	131.5
1980	9.09	408.14	44.9	175.0	129.7
1981	10.00	454.00	45.4	175.6	130.9
1982	10.86	485.44	44.7	171.3	127.2

* Includes Building Paper and Board Mills

SOURCE: Bureau of Labor Statistics, Employment and Earnings, Tables B-2 and C-2, U.S. Department of Labor, Washington, D.C.

NOTE: Data on hours and earnings refer to Production Non-Supervisory Workers.

TABLE XXIII (Cont.)

WAGE RATES AND EMPLOYMENT

PAPER AND ALLIED PRODUCTS INDUSTRY

1964 - 1982

YEAR	Average Hourly Earnings (Dollars)	Average Weekly Earnings (Dollars)	Average Weekly Hours	Employees	
				Total	Production Workers
				(Thousands)	
PAPERBOARD - SIC 263					
1964	2.80	124.32	44.4	68.6	53.0
1965	2.93	132.14	45.1	68.1	54.1
1966	3.06	138.62	45.3	71.2	55.9
1967	3.19	142.59	44.7	72.1	56.4
1968	3.37	152.32	45.2	72.0	57.2
1969	3.61	163.53	45.3	71.1	56.4
1970	3.86	171.77	44.5	71.1	55.8
1971	4.14	184.23	44.5	66.0	51.4
1972	4.47	200.70	44.9	66.0	52.6
1973	4.78	212.23	44.4	66.1	52.5
1974	5.14	225.65	43.9	65.5	52.3
1975	5.74	243.95	42.6	60.8	47.9
1976	6.40	280.32	43.8	65.6	52.2
1977	6.94	312.30	45.0	66.9	52.4
1978	7.67	340.55	44.4	67.3	52.8
1979	8.38	367.88	43.9	65.5	51.9
1980	9.28	408.32	44.0	65.1	51.0
1981	10.23	450.12	44.0	63.5	49.8
1982	11.11	474.40	42.7	60.5	46.7
MISCELLANEOUS CONVERTED PAPER PRODUCTS - SIC 264					
1964	2.33	96.28	41.5	152.5	112.4
1965	2.39	99.42	41.6	159.6	116.8
1966	2.48	104.16	42.0	171.2	125.3
1967	2.60	107.38	41.3	175.5	128.8
1968	2.77	113.99	41.3	179.8	131.6
1969	2.94	121.30	41.4	187.6	136.4
1970	3.12	126.05	40.4	190.1	138.4
1971	3.36	136.42	40.6	190.2	139.2
1972	3.61	151.26	41.9	196.4	143.1
1973	3.85	161.32	41.9	205.4	148.8
1974	4.19	173.05	41.3	210.6	155.8
1975	4.57	185.09	40.5	190.5	133.6
1976	4.92	202.21	41.1	200.8	140.8
1977	5.33	219.60	41.2	210.2	147.5
1978	5.82	239.20	41.1	217.8	155.9
1979	6.31	259.34	41.1	221.4	163.7
1980	6.89	279.73	40.6	219.6	162.7
1981	7.58	310.02	40.9	220.1	162.0
1982	8.20	332.10	40.5	214.8	155.6
PAPERBOARD CONTAINERS & BOXES - SIC 265					
1964	2.40	100.56	41.9	193.3	153.5
1965	2.47	104.23	42.2	199.6	158.6
1966	2.56	109.06	42.6	209.3	167.1
1967	2.66	110.92	41.7	214.4	170.7
1968	2.82	117.88	41.9	221.7	177.2
1969	3.00	125.10	41.7	229.6	184.2
1970	3.18	128.79	40.5	225.0	179.2
1971	3.40	139.06	40.9	215.7	170.4
1972	3.64	151.06	41.5	219.9	173.3
1973	3.88	160.63	41.4	224.5	179.0
1974	4.16	168.06	40.4	219.3	172.2
1975	4.59	186.35	40.6	193.9	148.0
1976	4.95	204.44	41.3	205.2	158.9
1977	5.36	224.05	41.8	209.1	161.0
1978	5.89	247.97	42.1	213.5	164.9
1979	6.37	263.08	41.3	214.0	165.4
1980	6.94	285.93	41.2	204.9	156.8
1981	7.53	312.50	41.5	201.2	153.5
1982	8.17	330.07	40.4	189.3	143.0

SOURCE: Bureau of Labor Statistics, Employment and Earnings, Tables B-2 & C-2, & Labstat Series Report, U.S. Dept. of Labor, Wash.,DC
NOTE: Data on hours and earnings refer to Production and Non-Supervisory Workers.

TABLE XXIV

PULP, PAPER AND BOARD MILLS

OUTPUT PER MAN-HOUR

1947 - 1982

YEAR	Output per Man-Hour		Output	Man-Hours	
	Production Workers	All Employees		Production Workers	All Employees
	-1977 = 100-				
1947	29.4	32.4	31.7	108.0	97.9
1948	N.A.	N.A.	33.0	N.A.	N.A.
1949	31.3	33.8	30.7	98.0	90.7
1950	35.0	38.1	36.7	104.8	96.3
1951	36.8	39.8	40.0	108.7	100.6
1952	36.3	38.9	38.0	104.7	97.6
1953	36.3	38.9	40.6	111.8	104.3
1954	37.9	40.4	41.4	109.1	102.5
1955	40.4	43.2	46.4	114.9	107.3
1956	42.5	45.1	49.2	115.7	109.1
1957	42.9	45.1	47.9	111.7	106.3
1958	44.1	46.2	48.1	109.1	104.2
1959	46.9	49.0	53.6	114.4	109.4
1960	48.8	50.6	54.8	112.2	108.3
1961	52.2	53.9	56.5	108.3	104.9
1962	54.2	56.0	59.5	109.8	106.3
1963	57.4	59.3	62.7	109.2	105.8
1964	60.3	62.3	66.7	110.6	107.0
1965	63.7	65.4	70.6	110.9	107.9
1966	66.9	68.7	76.1	113.8	110.8
1967	66.1	67.6	75.9	114.8	112.2
1968	69.9	71.9	81.6	116.8	113.5
1969	72.5	74.8	85.9	118.5	114.9
1970	75.8	77.5	85.1	112.2	109.8
1971	80.1	81.0	86.0	107.3	106.2
1972	86.7	87.9	92.8	107.0	105.6
1973	90.2	91.5	97.1	107.7	106.1
1974	90.5	91.5	96.7	106.8	105.7
1975	87.7	86.?	82.1	93.6	94.7
1976	95.0	95.0	95.6	100.6	100.6
1977	100.0	100.0	100.0	100.0	100.0
1978	103.7	103.2	102.4	98.7	99.2
1979	106.2	105.4	106.0	99.8	100.6
1980	106.6R	105.4R	105.5	99.0R	100.1R
1981	108.2R	107.5R	107.0R	98.9R	99.5R
1982(API)	109.9	108.3	102.5	93.3	94.6

SOURCE: U.S. Department of Labor - Bureau of Labor Statistics, (API): Estimated by American Paper Institute
N.A. - Not Available
R - Revised

TABLE XXV

COMPENSATION OF EMPLOYEES IN THE PAPER AND ALLIED PRODUCTS INDUSTRY

IN THE GROSS NATIONAL PRODUCT ACCOUNTS

1948 - 1982

YEAR	COMPENSATION OF EMPLOYEES			Corporate Capital Consumption Allowance	Number of Full Time Equivalent Employees (000)	Number of Full Time & Part Time Employees (000)	Average Annual Earnings per Full Time Equivalent Employee (Dollars)
	Total	Wages and Salaries	Supplements to Wages & Salaries*				
	(Millions of Dollars)						
1948	1,577	1,501	76	122	470	470	3,194
1949	1,548	1,465	83	140	451	453	3,248
1950	1,788	1,686	102	154	482	485	3,498
1951	2,057	1,923	134	179	504	510	3,815
1952	2,143	2,004	139	204	497	504	4,032
1953	2,375	2,224	151	234	523	533	4,252
1954	2,457	2,292	165	275	522	534	4,391
1955	2,684	2,499	185	338	537	551	4,654
1956	2,919	2,712	207	370	554	570	4,895
1957	3,038	2,812	226	419	555	567	5,067
1958	3,117	2,868	249	464	542	558	5,292
1959	3,436	3,152	284	474	567	582	5,559
1960	3,596	3,288	308	496	576	592	5,708
1961	3,791	3,464	327	541	582	599	5,952
1962	4,042	3,678	364	653	598	615	6,151
1963	4,222	3,828	394	665	605	622	6,327
1964	4,446	4,028	418	721	607	625	6,636
1965	4,696	4,250	446	734	628	640	6,768
1966	5,133	4,616	517	771	656	667	7,037
1967	5,415	4,876	539	837	672	680	7,256
1968	5,885	5,267	618	898	681	691	7,734
1969	6,496	5,768	728	955	705	713	8,182
1970	6,788	5,994	794	1,007	694	702	8,637
1971	7,039	6,172	867	1,060	669	679	9,226
1972	7,708	6,704	1,004	1,167	674	684	9,947
1973	8,466	7,290	1,176	1,249	689	700	10,581
1974	9,216	7,885	1,333	1,281	688	701	11,461
1975	9,350	7,921	1,429	1,435	628	642	12,613
1976	10,909	9,167	1,742	1,667	662	673	13,847
1977	12,192	10,182	2,011	1,889R	679	692	14,996
1978	13,498	11,219	2,258	2,126R	690	700	16,259
1979	14,965	12,379	2,538	2,129R	697	707	17,760
1980R	16,212	13,384	2,828	2,564	681	691	19,653
1981R	17,643	14,519	3,124	3,095	678	686	21,414
1982	18,320	15,040	3,280	3,467	650	664	23,138

SOURCE: Bureau of Economic Analysis, Department of Commerce, Gross National Product Accounts, Table 6

* Total Less Wages and Salaries

R - Revised

TABLE XXVI

PAPER AND ALLIED PRODUCTS

CAPITAL EXPENDITURES

1947 - 1982

(Million Dollars)

YEAR	BY PAPER AND ALLIED PRODUCTS COMPANIES	AT PAPER AND ALLIED PRODUCTS ESTABLISHMENTS								
			PRIMARY MILLS					CONVERTED PLANTS		
		Total SIC 26	Total Primary 261-3, 266	Pulp Mills 261	Paper Mills 262	Paperboard Mills 263	Building Paper & Board Mills 266	Total Converting 264,5	Converted Paper Products 264	Paperboard Containers & Boxes 265
1947	N.A.	407	291	86	205		a	116	64	52
1948	383	N.A.								
1949	298	315	212		212a		a	103	52	51
1950	327	299	212		212a		a	87	51	36
1951	420	389	263		263a		a	126	61	65
1952	364	371	274		274a		a	97	61	36
1953	409	397	276		276a		a	121	74	47
1954	455	533	371		371a		a	162	162	
1955	510	556	389		389a		a	167	167	
1956	800	750	548		548a		a	202	106	96
1957	810	767	585		585a		a	182	182	
1958	570	634	417	43	259	102	13	218	82	136
1959	650	686	453	92	215	117	29b	233	79i	154
1960	770	658	442	35	246	136	25b	216	107i	109
1961	620	685	473	49	285	108	31b	212	99	113
1962	620	742	459	34	277	126	22b	283	122i	161
1963	700	708	440	39	233	160	8	270	129	141
1964	910	902	589	67	296	214	12	313	153	160
1965	1,020	1,186	826	112	496	200	18	359	180	179
1966	1,320	1,422	961	113	575	255	18	461	212	249
1967	1,490	1,585	1,122	122	581	399	20	463	226	237
1968	1,220	1,238	766	77	487	185	17	473	231	242
1969	1,620	1,421	879	133	555	158	33	543	263	280
1970	1,740	1,397	882	122	503	239	18	516	289	227
1971	1,290	1,197	755	135	374	228	18	442	262	180
1972	1,460	1,335	841	136	372	314	19	495	289	206
1973	1,990	1,530	997	119	508	344	26	531	304	227
1974	2,890	2,214	1,558	136	723	637	63	657	315	342
1975	2,980	2,718	1,959	294	832	807	26	759	412	347
1976	3,110	3,010	2,282	375	1,044	844	19	729	394	335
1977	3,600	3,295	2,367	301	1,115	934	17	928	507	421
1978	3,990	3,736	2,638	195	1,424	1,000	19	1,100	604	496
1979	5,550	4,447*	3,231	240	1,714	1,229	48	1,216	725	491
1980	6,800	5,128*	3,726	250	1,897	1,539	40	1,403	775	628
1981	6,720	4,656*	3,411	301	2,109	974	27	1,245	746	499
1982	5,970	N.A.								

SOURCE: Paper and Allied Products Companies, Bureau of Economic Analysis
Paper and Allied Products Establishments, Bureau of the Census

NOTES: (a) Capital expenditures at building paper and board mills included with expenditures at pulp, paper and board mills.
(b) Data as originally published.
(i) Imputed from available data.
N.A. Not Available
* Based on revised sampling techniques which resulted in some understatement of the total.

TABLE XXVIIA

PULP AND PAPER INDUSTRY ENVIRONMENTAL PROTECTION

CAPITAL EXPENDITURES THROUGH 1982 AND PLANNED THROUGH 1983

1966-1983

YEAR	Water	Air	Solid Waste Disposal From Manufacturing	Total	Percent of Total Capital Expenditures
	---Million Dollars---				
1966	270	129	10	409	
1967	44	31(E)	1(E)	76	
1968	49	43(E)	1(E)	93	
1969	74	52(E)	2(E)	128	
1970	120	65(E)	2(E)	187	
1971	134	66	2.5	203	
1972	205	129	5	339	38
1973	179	162	10	351	34
1974	216	296	11	523	31
1975	286	341	18	645	30
1976	319	216	29	564	29
1977	278	148	17	443	19
1978	182	149	32	363	16
1979	178	158	23	359	12
1980	140	190	38	368	9
1981	91	120	49	260	6
1982	81	214	23	318	9
Through 1982	2,846	2,509	274	5,629	
Planned 1983	126	138	59	323	

SOURCE: National Council of the Paper Industry for Air and Stream Improvement

TABLE XXVIIB

PAPER AND ALLIED PRODUCTS

EXPENDITURES ON

RESEARCH AND DEVELOPMENT

1966 - 1983

YEAR	Total Expenditures --$ million--
1966	117
1967	128
1968	144
1969	188
1970	178
1971	187
1972	189
1973	194
1974	237
1975	249
1976	313
1977	336
1978	391
1979	454
1980	508
1981	557
1982	586*
1983	597*

SOURCE: National Science Foundation

* McGraw Hill Economics Department Estimate

TABLE XXVIII

WOOD SUPPLY AND DEMAND

	Total	New England States	Middle Atlantic States	Lake States	Central States	Southern States	Pacific Coast States	Rocky Mountain States
	Million Acres							
Commercial Forest Land in U.S. January 1, 1977	487.8	31.0	48.2	50.0	41.6	188.4	70.8	57.8
Ownership by Forest Industry Companies	68.0	9.9	2.9	4.2	0.8	35.8	12.3	2.1
% of Industry	13.9%	31.9%	6.0%	8.4%	1.9%	19.0%	17.4%	3.6%
	Million Cubic Feet							
All Species								
Total Growth	21,874	1,352	1,832	1,691	1,051	10,826	3,431	1,690
Removals	14,425	639	663	790	637	6,571	4,279	846
Mortality	4,036	367	330	520	145	1,087	1,088	498
Removals and Mortality as Percent of Growth	84.4%	74.4%	54.2%	77.5%	74.4%	70.7%	156.5%	79.5%
Softwoods								
Total Growth	12,350	847	232	456	70	6,270	2,886	1,589
Removals	10,170	396	103	181	25	4,471	4,152	842
Mortality	2,311	139	56	158	7	485	1,007	459
Removals and Mortality as Percent of Growth	101.1%	63.2%	68.4%	74.3%	45.7%	79.0%	178.8%	81.9%
Hardwoods								
Total Growth	9,524	505	1,600	1,236	982	4,556	545	100
Removals	4,255	244	560	609	612	2,100	126	4
Mortality	1,724	228	274	362	138	603	81	39
Removals and Mortality as Percent of Growth	62.8%	93.5%	52.1%	78.6%	76.4%	59.3%	38.0%	43.0%

New England States	Middle Atlantic States	Lake States	Central States	Southern States	Pacific Coast States	Rocky Mountain States
Connecticut	Delaware	Michigan	Illinois	North Carolina	Alaska	Idaho
Maine	Maryland	Minnesota	Indiana	South Carolina	Oregon	Montana
Massachusetts	New Jersey	North Dakota	Iowa	Virginia	Washington	South Dakota (West)
New Hampshire	New York	South Dakota (East)	Kansas	Florida	California	Wyoming
Rhode Island	Pennsylvania	Wisconsin	Kentucky	Georgia	Hawaii	Arizona
Vermont	West Virginia		Missouri	Alabama		Colorado
			Nebraska	Mississippi		Nevada
			Ohio	Tennessee		Mexico
				Arkansas		Utah
				Louisiana		
				Oklahoma		
				Texas		

SOURCE: Forest Statistics of the U.S., 1977 - Review Draft - U.S. Department of Agriculture, Forest Service

SECTION IV
FINANCIAL DATA ON THE PAPER INDUSTRY

Data on the changing financial condition of paper companies are presented in Table XXIX of this section. The data are drawn from the report, "Quarterly Financial Report for Manufacturing, Mining & Trade Corporations", now being reported by the Bureau of Census, Department of Commerce. From 1971 to 1982, the report had been prepared by the Federal Trade Commission. Prior to 1971, the Federal Trade Commission prepared the report jointly with the Securities and Exchange Commission.

The data represent the financial characteristics of corporations whose primary sales are products classified in the paper and allied products industry. The figures refer to the financial performance of the entire corporation. Many of the larger pulp and paper companies produce products not classified in this industry. In addition, a significant part of wood pulp, paper and paperboard capacity is owned by corporations whose major products are classified in other industry groups, including chemicals, metal containers, glass containers, printing and publishing, as well as lumber and wood products. Thus, the data reported for the paper and allied products industry include sales and income from non-paper subsidiary operations and exclude the paper and allied products divisions of corporations whose major business is in another industry.

Industrial classifications of corporations can vary over time. The QFR continually reviews the status of the corporations, adjusts the classifications as required, and publishes adjusted data for the previous four quarters when such changes are significant. History shows that while the removal or addition of large companies may have major impacts on the reported sales volume, it generally has a small effect on the financial ratios such as after-tax profits to sales or to stockholders' equity.

Table XXIX includes information on cash flow (depreciation plus profits after taxes) along with data on dividends, which permits calculation of internally generated funds available for investment. In addition, the QFR reports quarterly data on long-term debt (loans from banks due in more than one year plus other long-term debt) which, taken together with data on net worth, permit calculation of total capital employed.

Table XXX presents price indexes of pulp, paper and allied products as published by the Bureau of Labor Statistics for the period 1968 through 1982. The BLS conducts monthly surveys of producers of the product groups listed in the table and calculates both average prices and price changes. The price data are indexed to the base periods shown in the table. Component price indexes are combined into group indexes, with each weighted according to its relative importance to the total.

The BLS made a major change in its pulp, paper and allied products category in 1980, when it included an index of printing and publishing activity in the overall index of pulp, paper and allied products. Publishing accounts for roughly half the group's importance. Table XXX presents only the total printing and publishing index, without details. API has contacted the Bureau of Labor Statistics, objecting to the inclusion of printing and publishing prices in the pulp, paper and allied products price group.

Table XXX also shows the current product codes used by the BLS for the various indexes. In the API's Monthly Statistical Summary, which presents current data on the paper industry, the price index of pulp, paper and products, excluding building paper and board is published as being representative of the total industry trend.

The BLS is presently in the process of restructuring its Producer Price Index to have the individual sub-groupings match the Standard Industrial Classification grade codes. The restructuring is not yet complete. For the most part, data on the published catagories started in June 1981 or December 1982; one - corrugated and solid fibre boxes - started in March 1980.

Table XXXI presents data on operating characteristics at paper and allied products mills and plants for 1980 and 1981 as published in the Survey of Manufactures. The table shows data at the 4-digit SIC level. Data on the total primary sector may be computed by adding the data shown for industries 2611, 2621, 2631 and 2661.

The value added data include payrolls. The value of shipments is equal to the cost of materials plus the value added by manufacture less the change in the value of year-end inventories. The shipments data refer to the value of all products shipped from the mills and plants included in these classifications. They differ from the value of shipments data presented in Table XV. The figures in Table XV show the value of shipments of the products listed; the figures in Table XXXI show the value of shipments of all products from the mills and plants whose major product is the one listed.

TABLE XXIX

PAPER AND ALLIED PRODUCTS INDUSTRY

PROFIT AND LOSS DATA, CASH INFLOW AND SELECTED BALANCE SHEET DATA

1950 - 1982

(Millions of Dollars)

YEAR	Net Sales	Net Profit Before Taxes	Income Taxes	Net Profit After Taxes	Net Profit After Taxes To Net Sales (%)	Depreciation	Cash Inflow	Gross Cash Flow
1950	6,377	982	424	558	8.8	162	720	1,144
1951	8,022	1,417	858	559	6.9	183	742	1,600
1952	7,688	1,000	563	437	5.7	222	659	1,222
1953	8,371	1,005	554	450	5.4	242	692	1,246
1954	8,492	970	493	479	5.6	268	718	1,211
1955	9,847	1,206	601	604	6.1	310	914	1,515
1956	10,686	1,283	626	657	6.1	360	1,017	1,643
1957	10,420	1,020	497	521	5.0	376	897	1,394
1958 1/	10,256	899	440	460	4.5	406	866	1,306
1958 2/	10,658	987	481	506	4.7	423	929	1,410
1959	11,824	1,204	585	619	5.2	459	1,078	1,663
1960	11,764	1,135	546	587	5.0	480	1,067	1,613
1961	12,525	1.120	535	583	4.7	531	1,114	1,649
1962	13,698	1,212	584	628	4.6	583	1,211	1,795
1963	14,050	1,215	581	634	4.5	615	1,249	1,830
1964	14,771	1,312	557	754	5.1	641	1,395	1,952
1965 1/	16,224	1,488	619	869	5.4	671	1,540	2,159
1965 2/	15,217	1,271	517	753	4.9	632	1,385	1,902
1966	17,016	1,544	633	911	5.4	676	1,587	2,220
1967 2/	16,900	1,316	523	796	4.7	723	1,519	2,039
1968	18,738	1,534	645	889	4.7	780	1,669	2,314
1969	20,607	1,675	688	987	4.8	821	1,808	2,496
1970	21,069	1,211	492	719	3.4	869	1,588	2,080
1971 1/	22,224	967	455	512	2.3	926	1,438	1,893
1971 2/	- - -

TABLE XXIX (Cont.)

PAPER AND ALLIED PRODUCTS INDUSTRY

PROFIT AND LOSS DATA, CASH INFLOW AND SELECTED BALANCE SHEET DATA

1950 - 1982

(Millions of Dollars)

YEAR	Cash Dividends	Retained Earnings	Total Assets	Property Plant & Equipment Gross	Property Plant & Equipment Net	Net Worth	Long Term Debt	Total Capital	Net Profit After Taxes to Net Worth (%)
1950	178	380	5,055	N.A.	2,285	3,585	490	4,075	15.6
1951	200	359	6,005	N.A.	2,600	3,963	625	4,588	14.1
1952	196	241	6,301	4,643	2,777	4,298	784	5,082	10.1
1953	203	247	6,825	5,349	3,273	4,559	803	5,362	9.9
1954	227	252	7,085	5,694	3,367	4,963	908	5,871	9.7
1955	259	345	7,785	6,171	3,623	5,403	1,010	6,413	11.2
1956	273	384	8,492	7,028	4,213	5,772	1,286	7,058	11.4
1957	270	251	8,407	7,502	4,509	5,809	1,309	7,118	8.9
19581/	265	195	8,829	7,941	4,652	6,089	1,472	7,561	7.6
19582/	286	220	9,170	8,200	4,818	6,341	1,500	7,841	8.0
1959	290	329	9,721	8,740	5,062	6,642	1,512	8,154	9.3
1960	312	275	10,087	9,432	5,385	6,956	1,622	8,578	8.4
1961	328	255	11,051	10,447	5,857	7,612	1,719	9,331	7.6
1962	340	288	11,670	11,058	6,062	7,766	1,953	9,719	8.1
1963	348	286	11,859	11,420	6,079	7,886	1,964	9,850	8.0
1964	376	378	12,560	12,380	6,585	8,304	1,967	10,271	9.1
19651/	409	461	13,850	13,378	7,321	8,672	2,439	11,111	10.0
19652/	350	403	13,017	13,047	7,053	8,165	2,447	10,612	9.2
1966	372	539	14,621	14,662	8,131	8,710	3,104	11,814	10.5
19672/	391	405	15,645	15,403	8,579	9,011	3,736	12,747	8.8
1968	396	493	16,809	16,059	8,964	9,303	4,199	13,502	9.6
1969	418	569	18,794	17,169	9,529	10,212	4,267	14,479	9.7
1970	430	289	19,679	18,160	9,969	10,305	4,822	15,127	7.0
19711/	418	94	20,424	19,001	10,194	10,652	5,239	15,891	4.8
19712/	N.A.	N.A.	19,582	18,558	9,987	10,326	5,137	15,463	N.A.
1972	377	564	19,810	18,816	9,903	10,615	4,973	15,588	8.9
19731/	416	1,025	21,377	19,998	10,616	11,536	5,073	15,609	12.5
19732/	N.A.	N.A.	20,506	18,740	9,888	11,166	4,935	16,101	N.A.
19741/	519	1,668	23,696	19,093	11,524	12,958	5,346	18,304	16.8
19742/	530	1,754	26,088	21,856	12,012	13,602	6,457	20,059	16.8
1975	632	1,158	28,220	24,265	13,773	14,878	7,193	22,071	12.1
1976	660	1,601	32,010	27,284	15,659	17,203	7,625	24,828	13.2
19771/	725	1,502	34,450	29,545	17,131	18,321	8,551	26,872	12,2
19772/	793	1,566	37,047	31,866	18,590	19,704	9,254	28,958	12.0
19781/	877	1,771	40,810	34,420	20,226	21,181	10,082	31,263	12.5
19782/	859	1,739	40,118	33,563	19,644	20,794	9,900	30,694	12.5
1979	975	2,746	45,304	37,069	22,349	23,206	11,028	34,234	16.0
19801/	1,089	1,957	50,040	41,403	25,739	25,889	11,850	37,739	11.8
19802/	1,050	1,731	44,866	39,534	24,391	23,873	10,365	34,238	11.6
19803/	1,057E	1,743E	45,894	40,361	24,800	24,396	10,585	34,981	11.5
19811/	1,161	1,947	50,706	44,942	27,747	26,452	11,633	38,085	11.7
19812/	1,126	1,984	50,912	45,122	27,881	26,558	11,705	38,263	11.7
1982	1,104	355	52,915	48,235	29,711	26,705	13,149	39,854	5.5

See Page 62 for footnotes

TABLE XXX

WHOLESALE AND PRODUCERS PRICE INDEXES

FOR SELECTED SUBGROUPS AND CLASSES OF

WOOD PULP, PAPER, PAPERBOARD AND CONVERTED PRODUCTS

1968 - 1982

(Index 1967 = 100)

	1968	1969	1970	1971	1972	1973	1974	1975
PULP, PAPER & ALLIED PRODUCTS	101.1	104.0	108.2	110.1	113.4	122.1	151.7	170.4
PULP, PAPER & PRODUCTS, exc. Building Paper & Board	101.2	104.1	108.5	110.4	113.7	122.5	152.8	171.9
Wood Pulp Sub-Group	100.0	100.0	109.6	112.1	111.5	128.3	217.8	283.4
Sulphate, Bleached	100.0	100.0	109.5	111.6	110.5	128.3	220.0	281.2
Sulphite, Bleached	100.0	100.0	109.9	113.2	113.2	129.5	227.0	298.7
Paper Making Wood Pulp	(Index Dec. 1973 = 100)			--	--	--	148.1	193.4
Bleached Sulphate Hardwood Pulp	(Index Dec. 1973 = 100)			--	--	--	147.2	186.4
Dissolving Wood Pulp	(Index Dec. 1973 = 100)			--	--	--	139.8	180.2
Waste Paper Sub-Group	130.0	138.7	125.0	112.1	133.6	197.4	265.5	110.2
No. 1 News	137.1	122.9	108.1	103.1	119.2	137.2	201.6	111.8
No. 1 Mixed	152.6	168.2	130.3	122.8	155.2	230.8	330.8	103.6
Old Corrugated Boxes	128.5	140.4	135.5	111.5	131.6	223.3	251.4	89.7
Semichemical Kraft Clippings	125.6	149.1	145.7	127.2	153.8	223.7	288.8	134.4
Mixed Kraft Clippings	131.5	157.6	153.6	130.9	163.2	247.1	323.2	138.3
White News Blanks	91.9	89.9	84.3	82.5	85.8	124.4	212.0	111.7
Paper Sub-Group	102.0	105.5	111.0	114.2	116.3	121.4	148.6	172.9
Paper, except Newsprint	102.2	105.8	112.0	114.8	116.1	121.0	147.7	169.3
Book Paper, Uncoated Offset	102.4	106.2	112.0	116.3	118.5	120.9	153.7	158.0
Wood Bond, Unwatermarked	105.7	108.8	115.6	120.1	121.9	124.8	139.5	148.5
25% Cotton Fiber	103.5	106.6	112.1	115.4	116.7	122.2	147.8	162.8
Wrapping Paper	98.0	104.5	117.6	117.9	119.8	127.4	158.6	200.8
Newsprint Class	101.1	104.4	107.6	112.2	116.7	122.2	151.2	184.0
Coated Printing Paper #3	(Index Dec. 1973 = 100)			--	--	--	110.1	118.4
Coated Printing Paper #5	(Index Dec. 1973 = 100)			--	--	--	119.6	136.3
Watermarked Bond #1	(Index Dec. 1973 = 100)			--	--	--	108.3	114.6
Form Bond, 12 lbs.	(Index Dec. 1973 = 100)			--	--	--	128.7	144.7
Uncoated Index Bristols	(Index Dec. 1973 = 100)			--	--	--	119.2	133.5
Shipping Sack, Unbleached Kraft	(Index Dec. 1973 = 100)			--	--	--	117.6	143.0
Standard Converting, Unbleached Kraft	(Index Dec. 1973 = 100)			--	--	--	116.1	140.7
Grocery Sack, Unbleached Kraft	(Index Dec. 1973 = 100)			--	--	--	118.3	150.7
Form Bond, 15 lb.	(Index Dec. 1975 = 100)			--	--	--	--	--
Paperboard Sub-Group	95.9	99.4	101.1	102.4	105.5	115.1	152.2	170.3
Containerboard Class	93.1	97.2	99.0	100.3	103.9	113.4	146.2	171.5
Linerboard, 42 lb. Kraft	94.4	97.5	99.2	100.3	103.4	111.4	143.8	171.0
Corrugating Medium, Semichemical	89.6	96.3	98.9	100.2	105.1	118.3	152.2	172.5
Folding Boxboard Class	100.2	102.5	103.2	104.6	106.5	115.7	158.2	162.8
Set-Up Boxboard Class	102.2	107.0	110.7	113.7	119.0	131.4	185.4	192.9
Chipboard	103.4	109.6	114.1	117.5	123.3	135.0	187.3	191.7
White Clay Coated, 80 Bright	(Index Dec. 1974 = 100)			--	--	--	--	100.0
Bleached Board Folding Carton	(Index Dec. 1974 = 100)			--	--	--	--	102.0
Uncoated Cup Stock	(Index Dec. 1974 = 100)			--	--	--	--	102.8
Tube, Can and Drum Stock	(Index Dec. 1974 = 100)			--	--	--	--	100.2
Converted Products Sub-Group	101.0	103.6	107.9	109.7	113.6	121.6	144.9	161.8
Sanitary Paper, etc.	104.2	109.1	115.1	119.6	121.0	124.8	155.7	194.7
Paper Bags, Shipping Sacks	94.4	98.4	106.9	100.1	107.6	119.4	138.6	155.7
Boxes, Shipping Containers	101.6	104.4	108.1	111.5	115.9	124.5	146.0	158.0
Gummed Sealing Tape	100.8	102.0	102.1	100.4	102.9	111.8	138.8	161.6
Office Supplies	100.3	98.7	101.4	101.9	103.2	109.9	136.1	148.5
Composite Cans	102.7	104.6	108.3	112.3	115.9	122.3	143.6	167.3
Building Paper and Board Sub-Group	100.9	105.5	101.0	102.8	106.4	112.8	123.5	127.1
All Commodities	102.5	106.5	110.4	114.0	119.1	134.7	160.1	174.9
Industrial Commodities	102.5	106.0	110.0	114.1	117.9	125.9	153.8	171.5

SOURCES: Bureau of Labor Statistics, Microfiche report containing complete series of producers price indexes through June 1982, U.S. Department of Labor, Washington, D.C.

NOTE: Annual figures are averages of monthly data.

TABLE XXX (Cont.)

WHOLESALE AND PRODUCERS PRICE INDEXES

FOR SELECTED SUBGROUPS AND CLASSES OF

WOOD PULP, PAPER, PAPERBOARD AND CONVERTED PRODUCTS

1968 - 1982

(Index 1967 = 100)

	1981 BLS Price Codes	1976	1977	1978	1979	1980	1981	1982
PULP, PAPER & ALLIED PRODUCTS	09	179.4	186.4	195.6	219.0	249.2	273.8	288.7
PULP, PAPER & PRODUCTS, exc. Building Paper & Board	091	180.8	187.3	195.6	220.2	250.6	270.8	273.2
Wood Pulp Sub-Group	0911	286.0	281.1	266.5	314.3	380.3	397.1	379.0
Sulphate, Bleached Softwood	09110211	282.8	277.0	257.1	308.4	378.6	395.7	375.0
Sulphite, Bleached	09110221	291.0	278.1	268.6	336.3	420.6	431.4	405.6
Paper Making Wood Pulp	091102	192.5	186.8	174.5	263.5	263.5	272.6	254.3
Bleached Sulphate Hardwood Pulp	09110212	181.1	174.0	162.9	197.5	240.2	241.9	208.6
Dissolving Wood Pulp	091103	189.9	193.8	191.5	197.9	229.9	247.8	254.2
Waste Paper Sub-Group	0912	184.9	187.2	191.2	206.6	208.7	175.7	121.1
No. 1 News	09120102	199.5	209.6	200.5	151.8	167.4	95.7	72.1#
No. 1 Mixed	09120205	156.3	174.4	224.0	204.3	221.7	189.8	142.7#
Old Corrugated Boxes	09120311	195.7	186.4	202.0	278.4	192.0	136.9	94.6#
Semichemical Kraft Clippings	09120415	209.6	210.4	224.2	335.4	325.7	277.7	184.1#
Mixed Kraft Clippings	09120521	231.0	232.2	248.7	384.4	371.4	313.5	221.4#
White News Blanks	09120625	185.9	186.7	178.5	186.3	217.2	206.8	144.2#
Paper Sub-Group	0913	182.3	194.3	206.1	229.6	256.8	279.8	286.3
Paper, except Newsprint	091301	177.1	187.2	199.4	222.8	249.3	271.1*	278.3*
Printing Paper, Ctd. 2 Sides, Other Grades	09130116	(Index June 1981= 100)		--	--	--	--	104.2
Printing Paper, Ctd. 1 Side	09130117	(Index June 1981= 100)		--	--	--	--	109.8
Book Paper, Uncoated Offset	09130122	164.7	173.8	188.3	214.1	238.9	266.3	247.3
Wood Bond, Unwatermarked	09130131	151.1	156.6	164.7	182.1	203.5	220.2	224.7
25% Cotton Fiber	09130141	170.2	180.1	187.3	203.7	230.0	248.1	261.2
Thin Paper	09130142	(Index June 1981=100)		--	--	--	--	107.2
Cover & Text	09130148	(Index June 1981=100)		--	--	--	--	105.8
Uncoated Body Stock	09130149	(Index June 1981=100)		--	--	--	--	97.8
Wrapping Paper	09130302	208.4	213.3	225.6	243.6	264.3	N.A.	313.2E
Newsprint Class	09130291	198.2	215.5	226.3	250.2	279.3	308.0	315.8
Coated Printing Paper #3	09130113	128.5	139.1	153.9	167.2	178.6	193.0	202.9
Coated Printing Paper #5	09130115	144.9	162.3	179.5	194.5	217.7	235.3	238.9
Watermarked Bond #1	09130132	116.2	119.9	125.3	137.4	150.4	N.A.	N.A.
Form Bond, 12 lbs.	09130133	149.0	154.2	165.3	187.8	209.7	226.3	217.7E
Uncoated Index Bristol	09130147	137.8	144.1	149.7	166.6	191.3	N.A.	N.A.
Packaging and Industrial Converting	091303	(Index June 1981=100)		--	--	--	--	98.5
Shipping Sack, Unbl. Kraft	09130304	145.3	155.4	161.5	178.3	199.6	220.4	214.8
Standard Converting, Unbl. Kraft	09130311,2	141.5	145.4	151.5	167.0	191.3	N.A.	N.A.
Other Converting, 18 lb & Over, Unbleached Kraft	09130311	(Index June 1981=100)		--	--	--	--	99.8
Other Converting, 18 lb. & Over, Exc. Unbleached Kraft	09130312	(Index June 1981=100)		--	--	--	--	100.8
Grocery Sack, Unbl. Kraft	09130307	152.0	151.2	158.2	179.6	210.6	223.9	208.3
Form Bond, 15 lb.	09130134	102.4	103.9	110.9	126.1	142.3	154.7	151.5
Special Industrial Paper	091304	(Index June 1981=100)		--	--	--	--	104.2
Paperboard Sub-Group	0914	176.0	176.2	179.6	202.1	234.6	258.1	254.9
Containerboard Class	091401	176.1	172.0	172.7	197.8	231.1	252.5	246.1
Linerboard, 42 lb. Kraft	09140101	174.4	170.6	171.5	196.4	231.0	251.8	247.0
Corrugating Med., Semichem.	09140111	181.5	177.3	179.1	203.8	233.2	254.9	245.2
Folding Boxboard Class	091402	167.4	174.8	185.2	199.4	229.2	249.5	250.2
Set-Up Boxboard Class	091403	195.1	204.1	214.9	234.5	274.6	294.0	300.4
Chipboard	09140332	193.9	202.8	213.5	233.1	272.9	292.2	298.5
White Clay Ctd., 80 Bright	09140225	103.7	108.8	117.6	124.8	141.6	154.4	149.7
Bleached Board Fldg. Carton	09140441	109.9	117.4	124.0	134.4	152.6	176.1	177.7
Uncoated Cup Stock	09140442	111.1	118.7	122.8	135.5	156.4	178.8	184.8
Tube, Can and Drum Stock	09140448	103.0	104.1	105.6	117.0	133.4	143.4	145.3
Converted Products Sub-Group	0915	170.0	176.6	186.5	209.9	238.5	258.8	264.4
Sanitary Paper, etc.	091501	214.4	236.7	253.8	279.9	325.0	347.3	353.7
Paper Bags, Shipping Sacks	091502	163.5	171.5	190.9	220.4	246.4	N.A.	263.3
Boxes, Shipping Containers	091503	164.7	167.6	174.6	197.6	223.2	243.9	249.6
Gummed Sealing Tape	09150431	168.3	175.8	187.6	205.5	246.7	260.9	267.7
Office Supplies	091506	149.4	151.4	156.7	178.6	198.7	214.6	224.6
Composite Cans	091507	179.0	194.3	209.6	226.4	253.3	272.8	298.4
Building Paper and Board Sub-Group	092	148.8	157.0	187.4	192.4	206.2	231.7	239.5
Publications, Printed Matter and Printing	093				(Index Dec. 1980 = 100)		108.2	118.4
All Commodities		183.0	194.2	209.3	235.6	266.8	293.4	299.3
Industrial Commodities		182.4	195.1	209.4	236.5	274.8	304.1	312.3

* Also excludes packaging paper E - Estimate N.A. - Not Available # - January-September average

TABLE XXXI

GENERAL STATISTICS FOR THE PAPER AND ALLIED PRODUCTS INDUSTRY

1981

CODE	INDUSTRY GROUP & INDUSTRY	All Employees		Production Workers			Value Added by Manufacture	Cost of Materials	Value of Industry Shipments	Capital Expenditures New	End-of-Year Inventories
		Number (000)	Payroll ($ Mil.)	Number (000)	Man-Hours (Mil.)	Wages ($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)
26	PAPER AND ALLIED PRODUCTS	635.8	12,643.7	486.6	993.5	8,820.4	32,366.7	48,312.7	80,233.8	4,655.8	8,490.0
2611	Pulp Mills	15.9	408.1	12.3	25.1	310.4	1,221.7	1,960.1	3,141.8	301.2	399.9
2621	Paper Mills, exc. Bldg. Paper	130.4	3,236.2	101.6	212.3	2,408.9	8,534.3	12,135.3	20,544.1	2,106.8	1,990.4
2631	Paperboard Mills	61.7	1,570.1	48.4	102.3	1,191.7	4,304.9	6,622.9	10,881.8	974.2	761.5
264	Misc.Converted Paper Products	221.4	3,839.1	167.8	334.8	2,546.9	10,932.4	15,287.7	26,111.6	746.1	3,009.6
2641	Paper Coating and Glazing	42.2	805.8	28.5	58.0	473.9	2,103.6	3,077.9	5,146.0	199.8	672.3
2642	Envelopes	25.6	393.8	20.3	39.8	268.8	770.7	837.1	1,600.7	38.1	182.6
2643	Bags, except Textile Bags	54.7	884.0	43.3	87.7	606.8	2,123.6	3,523.8	5,613.4	165.7	713.6
2645	Die-Cut Paper and Board	17.2	258.1	13.2	24.9	166.8	683.5	1,004.6	1,676.6	23.2	179.4
2646	Pressed and Molded Pulp Goods	3.2	60.5	2.7	5.9	45.6	128.0	108.7	238.6	2.5	23.0
2647	Sanitary Paper Products	36.6	804.6	28.9	58.4	599.5	3,654.0	4,670.4	8,345.8	248.2	614.5
2648	Stationery Products	11.9	168.6	9.0	17.3	110.4	235.7	666.2	892.9	13.1	144.7
2649	Converted Paper Products, NEC	30.1	463.8	21.9	42.9	275.2	1,233.4	1,398.9	2,597.6	55.4	479.6
265	Paperboard Containers and Boxes	199.8	3,479.2	151.2	308.3	2,275.8	7,162.5	11,966.7	19,014.4	498.7	2,268.2
2651	Folding Paperboard Boxes	44.3	760.3	35.5	72.4	543.1	1,562.5	2,060.8	3,556.8	100.9	598.6
2652	Set-Up Paperboard Boxes	13.7	160.2	11.6	29.2	107.9	299.1	215.7	510.5	18.6	72.9
2653	Corrugated, Solid Fiber Boxes	97.3	1,818.7	69.5	139.2	1,118.2	3,635.5	7,128.8	10,760.3	271.2	992.6
2654	Sanitary Food Containers	28.3	462.3	21.6	42.0	306.7	1,080.0	1,642.0	2,690.9	70.7	440.4
2655	Fiber Cans,Drums,Similar Prod.	16.2	277.7	13.1	25.6	200.0	585.5	919.4	1,496.0	37.3	163.6
2661	Building Paper and Board Mills	6.5	111.2	5.3	10.7	86.6	210.[illegible]	340.0	540.1	26.8	60.5

1980

CODE	INDUSTRY GROUP & INDUSTRY	All Employees		Production Workers			Value Added by Manufacture	Cost of Materials	Value of Industry Shipments	Capital Expenditures New	End-of-Year Inventories
		Number (000)	Payroll ($ Mil.)	Number (000)	Man-Hours (Mil.)	Wages ($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)	($ Mil.)
26	PAPER AND ALLIED PRODUCTS	646.3	11,730.6	493.9	1,006.0	8,203.5	29,760.5	43,437.5	72,791.9	5,128.4	7,696.5
2611	Pulp Mills	16.2	404.6	12.8	26.5	304.4	1,292.7	1,776.9	3,031.9	250.3	357.1
2621	Paper Mills, exc. Bldg. Paper	130.1	2,936.4	101.0	212.2	2,195.2	7,707.6	10,738.6	18,326.1	1,896.6	1,808.1
2631	Paperboard Mills	64.0	1,514.3	49.9	107.1	1,143.9	3,824.9	6,090.7	9,872.3	1,538.7	697.6
264	Misc.Converted Paper Products	228.7	3,534.2	172.3	341.2	2,365.1	10,247.5	13,805.6	23,841.8	774.6	2,862.8
2641	Paper Coating and Glazing	45.8	753.1	29.8	60.8	437.5	1,902.9	2,805.0	4,688.1	174.5	639.8
2642	Envelopes	25.6	362.0	20.4	39.6	246.9	741.1	734.1	1,460.4	55.2	177.9
2643	Bags, except Textile Bags	54.9	809.0	43.7	87.0	559.7	2,007.5	3,247.3	5,214.6	163.6	640.6
2645	Die-Cut Paper and Board	16.6	229.3	12.7	24.0	147.3	610.2	857.0	1,453.5	41.0	158.5
2646	Pressed and Molded Pulp Goods	4.4	74.4	3.6	7.6	58.9	110.9	110.5	224.7	10.2	25.3
2647	Sanitary Paper Products	37.7	740.0	29.5	59.5	549.4	3,552.4	4,176.2	7,636.2	250.9	668.1
2648	Stationery Products	13.0	172.6	9.9	19.1	112.1	219.6	625.5	835.6	12.7	140.4
2649	Converted Paper Products, NEC	30.8	413.9	22.6	43.6	253.6	1,102.9	1,250.0	2,328.6	66.3	412.1
265	Paperboard Containers and Boxes	200.6	3,211.9	152.1	307.5	2,108.0	6,464.3	10,716.3	17,191.9	627.8	1,915.9
2651	Folding Paperboard Boxes	45.5	713.9	36.3	73.2	505.5	1,395.9	1,918.2	3,276.5	92.2	537.5
2652	Set-Up Paperboard Boxes	13.5	148.0	11.6	29.8	101.4	266.6	198.7	465.1	16.2	62.8
2653	Corrugated, Solid Fiber Boxes	97.2	1,667.0	69.4	136.2	1,034.2	3,325.9	6,273.2	9,650.5	420.5	782.8
2654	Sanitary Food Containers	28.4	427.6	21.7	42.5	285.1	921.8	1,509.5	2,430.2	56.0	379.6
2655	Fiber Cans,Drums,Similar Prod.	15.9	255.6	13.1	25.9	181.8	554.0	816.8	1,369.6	42.9	153.2
2661	Building Paper and Board Mills	6.7	109.2	5.5	11.3	86.9	223.5	309.3	528.0	40.4	55.0

SECTION V

SUPPLEMENT

Tables XXXII and XXXIII present Census data on production, imports, exports and new supply of wet machine board and total construction paper and board, for the years 1947 through 1982.

These data are included in the production and new supply totals shown in Tables I and X. API does not collect data on these grades.

Table XXXIV presents the data on imports used in computing the new supply totals presented in Table X that were taken from sources other than Bureau of the Census. The Census data are presented in Table XIII.

Table XXXV presents similar data on exports. The Census data are presented in Table XIV.

This section also includes the index to this report.

TABLE XXXII

WET MACHINE BOARD PRODUCTION, IMPORTS, EXPORTS AND CONSUMPTION

CENSUS DATA

1947 - 1982

(In Tons of 2,000 Pounds)

YEAR	Production	Imports	Exports	New Supply
1947	149,800	-	-	150,000
1948	142,134	-	-	142,000
1949	129,761	1,240	2,615	128,386
1950	164,611	2,136	3,266	163,481
1951	150,559	3,144	3,876	149,827
1952	140,175	2,242	3,318	139,099
1953	156,496	2,872	3,698	155,670
1954	135,910	3,349	3,420	135,839
1955	178,687	4,211	3,727	179,171
1956	146,569	3,492	3,998	146,083
1957	137,998	3,289	4,188	137,099
1958	121,103	4,566	3,884	121,785
1959	144,807	5,214	3,566	146,455
1960	174,992	4,517	2,791	176,718
1961	155,205	3,668	3,516	155,357
1962	145,625	4,905	5,312	145,218
1963	140,669	2,925	4,412	139,182
1964	147,880	10,403	4,884	153,399
1965	143,872	10,306	4,139	150,039
1966	148,098	5,537	4,811	148,824
1967	143,984	8,636	5,218	147,402
1968	154,794	11,146	4,318	161,622
1969	147,671	9,073	3,842	152,902
1970	139,055	9,308	4,614	143,749
1971	137,825	6,198	4,383	139,640
1972	147,914	4,204	5,642	146,476
1973	148,892	6,883	7,495	148,280
1974	143,862	5,899	11,287	138,474
1975	115,169	3,814	6,136	112,847
1976	129,955	6,988	6,167	130,326
1977	128,627	3,608	8,051	124,184
1978	136,337	2,614	7,554	131,397
1979	144,059	2,345	7,371	139,033
1980	137,649	2,118	8,017	131,750
1981	160,293R	1,684	10,812	151,165R
1982	N.A.	1,842	11,089	N.A.

SOURCE: Department of Commerce, Bureau of the Census, Industry Division.
Current Industrial Reports: Pulp, Paper and Board, Annual Issues

R - Revised
N.A. - Not Available

TABLE XXXIII

CONSTRUCTION PAPER AND BOARD PRODUCTION, IMPORTS, EXPORTS AND CONSUMPTION

CENSUS DATA

1947 - 1982

(In Tons of 2,000 Pounds)

YEAR	Production	Imports	Exports	New Supply
1947	2,047,763	32,923	35,406	2,045,280
1948	2,227,217	30,695	23,277	2,234,635
1949	1,773,573	22,541	28,090	1,768,024
1950	2,263,617	30,677	24,019	2,270,275
1951	2,303,538	29,057	30,223	2,302,372
1952	2,197,763	27,545	24,343	2,200,965
1953	2,322,275	26,177	25,871	2,322,581
1954	2,436,002	21,228	28,355	2,428,875
1955	2,698,344	28,944	30,580	2,696,708
1956	2,530,407	29,429	33,650	2,526,186
1957	2,317,701	19,040	31,800	2,304,941
1958	2,446,375	23,073	25,613	2,443,825
1959	2,605,831	27,698	28,250	2,606,279
1960	2,507,763	18,090	28,137	2,497,716
1961	2,474,304	11,168	31,430	2,454,042
1962	2,508,987	16,076	27,187	2,497,876
1963	2,591,639	28,851	26,304	2,594,186
1964	2,747,582	44,359	28,539	2,763,402
1965	2,822,203	29,471	29,463	2,822,211
1966	2,649,808	25,945	33,720	2,642,033
1967	2,679,098	26,591	26,539	2,679,150
1968	2,906,986	38,856	33,957	2,911,885
1969	2,955,112	39,362	42,837	2,951,637
1970	2,812,345	48,875	32,843	2,828,377
1971	3,282,908	81,262	37,673	3,326,497
1972	3,444,014	104,385	44,335	3,504,064
1973	3,404,880	105,558	54,385	3,456,053
1974	3,140,084	88,701	66,242	3,162,543
1975	2,864,353	84,363	59,575	2,889,141
1976	3,205,761	93,155	62,006	3,236,910
1977	3,255,141	135,274	50,270	3,340,145
1978	3,339,792	329,594	63,850	3,605,536
1979	3,130,601	382,883	54,241	3,459,243
1980	2,420,112	473,679	58,911	2,834,880
1981	1,989,203R	396,496	68,832	2,316,867R
1982	N.A.	419,515	47,833	N.A.

SOURCE: Department of Commerce, Bureau of the Census, Industry Division.
Current Industrial Reports: Pulp, Paper and Board, Annual Issues

NOTE: Excludes Hard Pressed Board

R - Revised

N.A. - Not Available

TABLE XXXIV

IMPORTS

1959 - 1982
(000 Tons)

YEAR	Newsprint	Uncoated Groundwood Paper	Coated Papers	Uncoated Free Sheet Papers
1959	5,274	41.5	0	0.2
1960	5,426	39.5	0	1.8
1961	5,382	35.9	0	3.4
1962	5,415	41.5	0	3.8
1963	5,398	44.2	0	5.3
1964	5,908	70.6	0	11.2
1965	6,349	98.1	0.9	10.7
1966	6,884	132.9	0.9	14.2
1967	6,546	147.5	1.4	34.7
1968	6,391	136.8	1.3	13.4
1969	6,724	216.9	3.3	15.4
1970	6,477	232.9	3.5	48.9
1971	6,463	244.2	4.7	108.5
1972	6,758	225.1	4.5	93.3
1973	7,236	237.1	12.3	120.2
1974	7,452	321.3	16.3	138.9
1975	5,552	264.0	4.7	86.9
1976	6,308	338.1	15.5	133.9
1977	6,339	443.2	111.6	155.3
1978	7,102	610.7	213.7	112.7
1979	7,168	694.5	188.7	140.6
1980	6,880	688.1	114.8	116.0
1981	6,728	650.0	39.0	118.8
1982	6,234	652.8	69.1	156.2

SOURCE: Newsprint - Canadian Shipments to U.S., CPPA; Other Country Imports to U.S., U.S. Bureau of Census
Uncoated Groundwood - Imports from Canada, CPPA
Imports from other countries, Bureau of the Census, adjusted by Printing/Writing Division of API
Uncoated Free Sheet Papers - Bureau of the Census, adjusted by Printing/Writing Division of API
Coated Papers - Bureau of the Census

TABLE XXXV

EXPORTS

1959 - 1982
(000 Tons)

YEAR	Uncoated Groundwood Papers	Coated Papers	Uncoated Free Sheet Papers	Unbleached Kraft Paperboard	Semichemical Paperboard	Bleached Paperboard	Recycled Paperboard
1959	4.6	25.6	44.8	329.0	21.0	17.0	40.0
1960	8.6	26.1	38.2	381.0	31.0	23.0	46.0
1961	10.2	21.7	34.6	407.0	62.0	32.0	60.0
1962	9.1	24.3	31.3	445.0	44.0	33.0	55.0
1963	11.1	27.1	30.1	517.0	83.0	39.0	53.0
1964	13.1	36.6	34.4	765.0	107.0	45.0	71.0
1965	3.2	48.5	29.0	905.0	55.0	47.0	32.0
1966	3.8	49.6	30.6	1,016.0	64.0	59.0	27.0
1967	4.4	46.8	27.3	1,174.0	76.0	61.0	23.0
1968	7.9	57.1	31.9	1,380.7	94.0	108.5	12.8
1969	6.1	70.0	35.3	1,682.8	52.4	108.1	16.8
1970	7.3	75.2	41.3	1,683.4	84.3	114.4	17.3
1971	9.9	72.2	46.2	1,834.3	104.0	156.5	20.6
1972	17.6	76.2	50.6	1,887.5	111.7	217.8	14.4
1973	29.7	80.6	64.9	1,596.7	107.4	280.3	30.8
1974	53.3	98.8	100.4	1,582.7	145.5	320.2	101.0
1975	74.7	122.8	119.8	1,058.0	115.4	256.2	23.9
1976	70.6	106.7	147.3	1,247.3	119.3	306.1	36.5
1977	54.1	98.9	111.4	1,289.6	121.9	389.4	29.6
1978	58.1	73.7	84.9	1,466.3	119.2	432.9	21.6
1979	80.4	73.5	68.1	1,645.3	93.2	496.7	21.8
1980	101.0	92.8	88.3	2,379.8	322.3	549.4	82.6
1981	119.7	88.6	116.7	1,886.6	155.2	556.6	23.8
1982	55.9	81.4	70.6	1,931.4	184.9	524.7	12.7

SOURCE: Paper Grades - Bureau of the Census; Printing/Writing Paper Division compilation
Paperboard Grades - 1959-1967 - Bureau of the Census
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